



SDS
#4 YELLOW BEAR
#5 5-STAR
#6 MEDIUM SPEED
Safety Data Sheet

***** Section 1 - Product and Company Identification *****

Material Name: Dry Milled corn products

Synonyms/Other Common Names: Corn Grits, Flaking Grits, Brewers Grits, Cornmeal, Corn Flour, Hominy Feed, Pregelatinized Corn Product, Pregelatinized Corn Flour, Ceratex, Snack Meal, Whole Grain Cornmeal, Whole Grain Corn Flour, BCF320, BCM260E, CC401, CC401E, CC402, CC402E, CC403, CC404, CCF600, CCF600E, CCF602, CCF604, CCF604E, CCF607, CCF609, CCF610, CCF610E, CCF610P, CCF611, CCF611E, CCF615, CCF620, CCF650, CCF675, CCG012, CCG040, CCG040-R, CCG040E, CCG045, CCG050, CCG060, CCG070, CCG080, CCM250, CCM250E, CCM254, CCM254E, CCM255, CCM255E, CCM260, CCM260E, CGM100, CJRG070, FCG165, FCG165E, FCG201, FCG202, FCM350, FCM350GBF, FCM350E, FCM355, FCM355E, MCF720, MCF750, MCF780, MCF800, MCG100, MCG115, MCG120, MCG122, WCC401, WCCF609, WCCF611, WCCF611E, WCCG040, WCCG040E, WCCM250, WCCM254, WCCM254E, WFCG155E, WFCG165, WFCG165E, WFCM350, WMCG100, WMCG105, WMCG120, MF04060, NC02080, ND06065, NF10085, NM02065, NM04085, NU20065, NU20085, RM04085, WNC02080, PGF1000, PCF1000, Allbond, USG15, USG95, PCF700, PCPF400, PCM254, PCM254E, PCF700, YPCF900, FEF040, FF025, FM020, FR020, PCF600, PCM254, WFF025, WFR020, WPCF600, WPCM254, WPCM254E, WPM350, PCM254E, FC080, ARP 254, ARP254E, WARP254, WARP254E, OCC401, OCCF604, OCCG040, OCCG050, OCCG012, OCCM250, OFCG165, OFCG202, OYCM200, OCCF600, OCCM254, OYCM205, OYCM315, OADOMHF, YCM205, YCM260, YCM300, YCM315, YPCF800, YPCF900, Toasted Corn Germ, NGCC401, NGCC402, NGCCF600, NGCCF607, NGCCF609, NGCCF610P, NGCCG012, NGCCG040, NGCCM254, NGCCM260, NGFCG165, NGFCM350, NGYCM315, NGYCM300

Recommended Use & Restrictions: Products listed are sold as food ingredient or feed materials.

Manufacturer Information:

Bunge North America
11720 Borman Drive
St. Louis, MO 63146

Phone: 314-292-2000 between 7:30 AM – 5:30 PM Central Time
Fax: 314-292-2384

Emergency Information:

In the event of an Emergency, contact Chemtrec at 1-800-262-8200

***** Section 2 – Hazard(s) Identification *****

Hazard classification: Combustible dust / Respiratory hazard if small particles are generated during further processing, handling or other means.

Hazard Statement(s): Mildly irritating to the eyes (Class 2B eye irritant). May cause breathing difficulties if inhaled. If small particles are generated during further processing, handling, or other means, may form combustible dust concentrations in air.

Potential Health Effects:

Eyes – Dust may be a mechanical eye irritant.

Skin - Sensitive individuals may experience irritation.

Inhalation – Excessive inhalation may affect nose, throat or lungs. Avoid breathing dust.

Ingestion - None anticipated under anticipated use conditions. Sensitive individuals may experience an allergenic response.

Carcinogenicity and Reproductive Hazard: Based on available data no evidence of carcinogenicity or reproductive toxicity.

Medical Conditions aggravated by exposure to product: No data available

Physical Hazards: None expected under normal conditions

Other Hazards (not otherwise classified): Milled grain products are not generally considered hazardous, but dust generated through downstream activities

Label Elements: Food product subject to FDA/USDA labeling and exempt from GHS labeling

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*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component (Chemical Name & Common Name)	Concentration
Not available	Milled corn products	Up to 100%
	Milled corn product dust	0-5%

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*** Section 4 - First Aid Measures ***

First Aid: Eyes If necessary, rinse eyes with water for 15 minutes. Remove contact lenses if applicable. Seek medical attention as needed.

First Aid: Skin - Wash with soap and water

First Aid: Ingestion - None

First Aid: Inhalation - Remove to fresh air. Seek medical attention for any breathing difficulty

Most important symptoms/effects (acute & delayed):

Eyes – Dust from particulates may be mildly irritating to the eyes

Skin – May cause irritation in sensitive individuals

Inhalation – Excessive inhalation may affect nose, throat and lungs. Allergies and respiratory ailments may be aggravated by exposure.

Ingestion: None expected under anticipated use conditions. May cause irritation to sensitive individuals.

*** Section 5 - Fire Fighting Measures ***

Extinguishing Media (suitable & unsuitable)

Foam, CO₂, water fog or dry chemical. Do not use a direct stream if dust is formed. Dust dispersed by direct stream in the presence of an ignition source could explode.

Hazardous Combustion Products

Oxides of carbon

Special Fire Fighting Equipment/Protective Equipment/Precautions

Product alone is not explosive. If fine grain dust is dispersed in air at sufficient concentration it may ignite if exposed to an ignition source. Firefighters should wear full protective gear.

*** Section 6 - Accidental Release Measures ***

Personal Precautions / Protective Equipment / Evacuation & Emergency Procedure: Methods and Material for Containment and Clean-up: Clean up with a soft bristle broom(s) or vacuum approved for a Class II hazardous location. Dust deposits should be maintained to a minimum on surfaces as these could form explosive mixture if they are dispersed in sufficient concentration. Avoid dispersal of dust in the air (i.e., cleaning dust surfaces with compressed air in the presence of an ignition source should not be allowed). Dispose of in accordance with local, State and Federal regulations.

*** Section 7 - Handling and Storage ***

Safe Handling Procedures & Safe Storage Procedures (including incompatibilities): Fine dust dispersed in air at a sufficient concentration may ignite if exposed to an ignition source. Remove grain dust from area / processing equipment prior to using any heat producing equipment such as arc welders, torches and spark / heat producing tools, such as surface grinders. According to 29 CFR 1910.272(f) a hot work permit is required.

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*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Limits

Chemical	ACGIH (TWA & Ceiling)	OSHA (PEL)	Other
Corn Milled Product Dust	10 mg / M ³	15 mg / M ³ (Total) 5 mg / M ³ (Respirable)	

Engineering Controls

Ventilation: Local exhaust if needed.

Mechanical (General): If needed, ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent escape of dust into the work area. Use only appropriately classified electrical equipment and powered industrial trucks.

Personal Protective Equipment:

Eyes/Face – Safety glasses / goggles suggested if eye contact is possible

Skin/Hands – Typically not necessary. Gloves may be worn if needed.

Respiratory – Wear an approved NIOSH dust respirator whenever dust concentrations in the work area are above ACGIH TLV / OSHA PEL

Work / Hygienic Practices: Good personal hygiene practices should be followed. Avoid excessive dust accumulations and control ignition sources. Where appropriate, employ grounding, venting and explosion relief in accordance with accepted practices in processes capable of generating dust and/or static electricity.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Products will be yellow or white granular materials – Dust will be fine particulates.
Odor:	Typical of milled corn
Odor Threshold:	ND
pH:	ND
Melting Point/Freezing Point:	NA
Initial Boiling Point and Boiling Range:	NA
Flash point:	NA
Evaporation Rate:	NA
Flammability (solid/gas):	ND
Upper/Lower Flammability/Explosive Limits (UFL/LFL):	See below
Vapor Pressure:	NA
Vapor Density:	NA
Relative Density:	NA
Solubility(ies):	Approx. 1%
Partition Coefficient (n-octanol/water):	ND
Auto-ignition temperature:	ND
Decomposition temperature:	ND
Viscosity:	NA

Upper/Lower flammability or explosive limits: When dispersed into the air in sufficient concentrations, grain dust can explode in the presence of an ignition source. Do not allow dust to become dispersed in the air even by the extinguishing agent. Minimum explosive concentration (MEC) is generally > 50g / m³. However, moisture content, particle size, caloric properties and specific ingredients also affect the explosiveness of grain dust. For an explosion to occur four conditions must exist:

First – Oxygen (air) must be present

Second – There must be an ignition source (e.g., open flame, electrical short, sparks, etc.)

Third – There must be fuel (e.g., grain dust in suspension)

Fourth – There must be containment of suspended grain dust (e.g., in a silo, filtration system)

Although an explosion will not occur if there is no containment, the dust can still ignite resulting in a fire.

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*** Section 10 - Chemical Stability & Reactivity Information ***

Reactivity: Stable under normal conditions

Chemical Stability: Stable

Possibility of Hazardous Reactions: None anticipated

Conditions to Avoid (e.g., static discharge, shock, or vibration): Dispersing dust in air above MEC and exposure to ignition sources.

Incompatible materials: No materials to be especially mentioned.

Hazardous Decomposition products: CO₂, H₂S and Oxygen deficient atmosphere under improper storage conditions

*** Section 11 - Toxicological Information ***

Likely routes of exposure (inhalation, ingestion, skin and eye contact) & description of symptoms:

Eyes: May be a mechanical irritant

Skin: May be a mechanical irritant

Inhalation: Acute excessive inhalation of grain dusts may affect the nose, throat and lungs. Repeated and prolonged exposure to grain dusts may affect the respiratory system or cause sensitization. Smokers are at increased risk of respiratory effects. Allergies and respiratory ailments may be aggravated by exposure.

Ingestion: None anticipated under normal use conditions. May cause irritation to sensitive individuals
Airborne dust may be generated during handling which may be irritating to eyes and respiratory system.

Description of immediate, delayed or chronic effects from short or long-term exposure: None determined
Acute toxicity: Based on available data, no evidence of acute toxicity.

Numerical measures of toxicity (LD 50/LC50): No LD50/LC50 data are available for these products

Listed in NTP report on Carcinogens, or identified as potential carcinogen by IARC or OSHA: No

*** Section 12 - Ecological Information *** (non-mandatory)

A: General Product Information: No information available for these products

B: Component Analysis - Ecotoxicity - Aquatic Toxicity: No data available

*** Section 13 - Disposal Considerations *** (non-mandatory)

US EPA Waste Number & Descriptions

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Precautions. See Section 8 for Personal Protective Equipment recommendations

May be composted

*** Section 14 - Transportation Information *** (non-mandatory)

UN Number:

UN proper shipping name:

Transport hazard classes:

Packing group number:

Environmental hazards (e.g., marine pollutant)

Bulk transport guidance:

Other special precautions:

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*** Section 15 - Regulatory Information *** (non-mandatory)

US Federal Regulations (EPA, DOT, OSHA, CPSC)

All electrical equipment must be suitable for use in hazardous atmospheres involving combustible dust in accordance with 29 CFR 1910.307. The National Electrical Code, NFPA 70, contains guidelines for determining the type and design of equipment and installation which will meet this requirement.

Combustible Dust is a "Hazard, other than Chemical" as defined by the OSHA hazard communication standard 29 CFR 1910.1200

State/Provincial Regulations: None of these products components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Additional Regulatory Information

*** Section 16 - Other Information ***

Other Information

This Safety Data Sheet covers milled grain products in their normal state and does not include any chemicals that may be applied by subsequent handlers and/or distributors of the products.

Bunge believes, to the best of its knowledge, that the information contained herein is accurate as of the date hereof. However, as the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of the material. MOREOVER, NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREIN AS TO THE INFORMATION PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The health and safety precautions contained herein may not be adequate for all individuals and/or all situations. It is the user's obligation to evaluate and use this product safely. Users should satisfy themselves that they have all current data relevant to their particular use and that their activities comply with all applicable laws.

Key/Legend

NA - Not Applicable
ND - Not Determined
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
TLV - Threshold Limit Value
PEL - Permissible Exposure Limit
TWA - Time Weighted Average
STEL - Short Term Exposure Limit
NTP - National Toxicology Program
IARC - International Agency for Research on Cancer
MEC - Minimum Explosive Concentration

Revision Date: 5/29/2015, 1.0000 – initial version

Revision Date: 7/22/2015, 1.0001 – added USG15

Revision Date: 8/3/2015, 1.0002 – added OCCM254

Revision Date: 9/14/2015, 1.0003 – added Toasted Corn Germ

Revision Date: 2/7/2016, 1.0004 – added 13 Non-GMO products

Revision Date: 5/2/2016, 1.0005 – added NGYCM300

Prepared by: D BARNES



Safety Data Sheet

According to 1907/2006/EC, Article 31

Version-No: 1

Revision: 01 April 2015

1 Identification of the substance/preparation and of the company/undertaking

Product details**Trade name:** StyroChem Crystal PS (Polystyrene)**Synonym:** Styrene homopolymer*This MSDS covers all grades of crystal polystyrene produced by StyroChem.***Manufacturer/Supplier:**

StyroChem
19250 Clark Graham
Baie d'Urfe, QC H9X 3R8
Canada
+1 (514) 457 3226

StyroChem
400 E. Minton Rd.
Fort Worth, TX 76179
USA
+1 (514) 457 3226

Further information obtainable from:

StyroChem Canada Logistics Inquiries/Customer Service
+1 (514) 457-3226 ext. 204 or ext. 208

Information in case of emergency:

StyroChem Canada, Ltd.
+1 (613) 996-6666 Canutec
+1 (514) 457-3226 StyroChem

Canada, Ltd.

2 Hazards identification

Hazard description:

Irritating vapors to respiratory system and eyes may occur when polymer is processed at high temperatures. Molten or heated material in skin contact can cause severe burns.

Information concerning particular hazards for human and environment:

R 36/37 Eye and Respiratory Irritant

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.



3 Composition/information on ingredients

Chemical characterization:**Identification number(s)****NLP Number:** 500-008-9**Chemical characterization****Description:**

9003-53-6	Polystyrene	>99.9%
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4 First aid measures

General information:

Possible minor skin or respiratory irritant.

After inhalation:

Remove person to fresh air immediately.

If breathing has stopped, apply artificial respiration and administer oxygen if necessary. Seek Medical attention.

After skin contact:

Wash with water and soap and rinse thoroughly.

(Continued on page 2)

Safety Data Sheet

According to 1907/2006/EC, Article 31

Version-No: 1

Rev: 01 April 2015

(Contd. from page 1)

Generally the product does not irritate the skin.
After contact with the molten product, cool rapidly with cold water. Do not pull solidified product off the skin.
Call a doctor immediately.

- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
None required.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:**
Beads on the floor could present a slipping hazard. Good housekeeping practices should be followed to avoid this hazard.
Avoid formation of dust.
Keep away from ignition sources. Ensure adequate ventilation
- **Measures for environmental protection:**
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Pick up mechanically.
Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
Any unavoidable deposit of dust must be regularly removed.
Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.
- **Information about fire - and explosion protection:**
Dust can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Prevent impact and friction.
- **Storage:**
· **Requirements to be met by storerooms and receptacles:** Keep container dry and store in a cool, ventilated area.
Ground all equipment containing material. Combustible materials and strong oxidizing agents should not be stored close by.

(Contd. on page 3)

(Contd. from page 2)

- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Do not eat, drink, or smoke while working.
Keep away from foodstuffs, beverages and feed.
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**
Thermally insulated glove material required when handling hot material.
- **Material of gloves**
Strong material gloves
Leather gloves
- **Eye protection:**



Tightly sealed goggles



Gloves for hot material

- **Body protection:** Protective work clothing

9 Physical and chemical properties

· General Information

Form: Beads
Color: Colorless to white
Odor: None

· Change in condition

Melting point/Melting range: >132°C (270°F)
Boiling point/Boiling range: Undetermined.

· **Decomposition temperature:** > 200°C

· **Self-igniting:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor

· **Vapor pressure at 20°C:** Not available

· **Density at 20°C:** 620 g/cm³

· **Solubility in water:** Insoluble

· **Solids content:** > 99.9 %

(Contd. on page 4)

(Contd. from page 3)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **Materials to be avoided:** Strong oxidizing agents
- **Dangerous decomposition products:** Carbon monoxide and carbon dioxide Flammable gases/vapors

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- **Information about elimination (persistence and degradability):** Not easily biodegradable
- **General notes:**
At present there are no ecotoxicological assessments.
Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation:** Follow official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Non contaminated packaging may be reused.

14 Transport information

- **Land transport ADR/RID (cross-border):**
Not a dangerous substance as defined in regulations
- **Maritime transport IMDG:**
Not a dangerous substance as defined in regulations
- **Marine pollutant:**
No
- **Proper shipping name:** POLYMERIC BEADS
- **Air transport ICAO-TI and IATA-DGR:**
Not a dangerous substance as defined in regulations
- **Proper shipping name:** POLYMERIC BEADS

(Contd. on page 5)

(Contd. from page 4)

15 Regulatory information

· **Labeling according to EU guidelines:**

*The product has not been classified and marked in accordance with EU Directives / respective national laws.
Observe the general safety regulations when handling chemicals.*

· **Risk phrases:**

36 Irritating to eyes
37 Irritating to respiratory system

· **Safety phrases:**

3/7 Keep container tightly closed in a cool place.
9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
33 Take precautionary measures against static discharges.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is valid for all physical forms.

SAFETY DATA SHEET

C27376000

Section 1. Identification

Product name : STATIKIL® Statik Neutralizer
Product code : C27376000
Other means of identification : Not available.
Product type : Aerosol.
Relevant identified uses of the substance or mixture and uses advised against
Not applicable.

Manufacturer : Mfd. for STATIKIL INC.
5186 New Haven Circle
Barberton, Ohio 44203

Emergency telephone number of the company : 216-566-2917
Product Information Telephone Number : 330-564-4000
Regulatory Information Telephone Number : 216-566-2902
Transportation Emergency Telephone Number : 800-424-9300

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture : FLAMMABLE AEROSOLS - Category 1
GASES UNDER PRESSURE - Compressed gas
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
TOXIC TO REPRODUCTION (Fertility) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation and Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 24.5%

GHS label elements

Hazard pictograms



Signal word : Danger
Hazard statements : Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
Causes skin irritation.
Suspected of damaging fertility.
May be fatal if swallowed and enters airways.
May cause respiratory irritation.
May cause drowsiness and dizziness.

Date of issue/Date of revision : 5/21/2015. Date of previous issue : No previous validation. Version : 1 1/14

Section 2. Hazards identification

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- General** : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
- Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling.
- Response** : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Storage** : Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** : DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
Please refer to the SDS for additional information. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.
- Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
2-Propanol	50.0	67-63-0
Methyl Acetate	15.3	79-20-9
Propane	13.0	74-98-6
Hexane	8.9	110-54-3
2-Methylpentane	4.1	107-83-5
3-Methylpentane	1.5	96-14-0
2,3-Dimethylbutane	1.3	79-29-8

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Section 4. First aid measures

- Ingestion : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments : No specific treatment.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media : None known.

- Specific hazards arising from the chemical : Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

- Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Section 6. Accidental release measures

- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
2-Propanol	ACGIH TLV (United States, 4/2014). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. NIOSH REL (United States, 10/2013). TWA: 400 ppm 10 hours. TWA: 980 mg/m ³ 10 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m ³ 15 minutes. OSHA PEL (United States, 2/2013). TWA: 400 ppm 8 hours. TWA: 980 mg/m ³ 8 hours.
Methyl Acetate	ACGIH TLV (United States, 4/2014). TWA: 200 ppm 8 hours. TWA: 606 mg/m ³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 757 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2013). TWA: 200 ppm 10 hours. TWA: 610 mg/m ³ 10 hours. STEL: 250 ppm 15 minutes. STEL: 760 mg/m ³ 15 minutes. OSHA PEL (United States, 2/2013). TWA: 200 ppm 8 hours. TWA: 610 mg/m ³ 8 hours.
Propane	NIOSH REL (United States, 10/2013). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m ³ 10 hours. OSHA PEL (United States, 2/2013). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m ³ 8 hours.
Hexane	ACGIH TLV (United States, 4/2014). Absorbed through skin. TWA: 50 ppm 8 hours. NIOSH REL (United States, 10/2013). TWA: 50 ppm 10 hours. TWA: 180 mg/m ³ 10 hours. OSHA PEL (United States, 2/2013). TWA: 500 ppm 8 hours. TWA: 1800 mg/m ³ 8 hours.
2-Methylpentane	ACGIH TLV (United States, 4/2014). TWA: 500 ppm 8 hours. TWA: 1760 mg/m ³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2013). TWA: 100 ppm 10 hours. TWA: 350 mg/m ³ 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m ³ 15 minutes.
3-Methylpentane	ACGIH TLV (United States, 4/2014). TWA: 500 ppm 8 hours. TWA: 1760 mg/m ³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2013). TWA: 100 ppm 10 hours. TWA: 350 mg/m ³ 10 hours. CEIL: 510 ppm 15 minutes.

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Section 8. Exposure controls/personal protection

2,3-Dimethylbutane

CEIL: 1800 mg/m³ 15 minutes.
ACGIH TLV (United States, 4/2014).
 TWA: 500 ppm 8 hours.
 TWA: 1760 mg/m³ 8 hours.
 STEL: 1000 ppm 15 minutes.
 STEL: 3500 mg/m³ 15 minutes.
NIOSH REL (United States, 10/2013).
 TWA: 100 ppm 10 hours.
 TWA: 350 mg/m³ 10 hours.
 CEIL: 510 ppm 15 minutes.
 CEIL: 1800 mg/m³ 15 minutes.

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
pH	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 9.1 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 1% Upper: 16%
Vapor pressure	: 13.5 kPa (101.325 mm Hg) [at 20°C]
Vapor density	: 1.55 [Air = 1]
Relative density	: 0.73
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (room temperature): <0.205 cm ² /s (<20.5 cSt) Kinematic (40°C (104°F)): <0.205 cm ² /s (<20.5 cSt)

Aerosol product

Type of aerosol	: Spray
Heat of combustion	: 0.00003571 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Propanol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Methyl Acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Propanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Methyl Acetate	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
2-Propanol	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-Propanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Hexane	Category 3	Not applicable.	Respiratory tract irritation and

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Section 11. Toxicological information

2-Methylpentane	Category 3	Not applicable.	Narcotic effects Respiratory tract irritation and Narcotic effects
3-Methylpentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2,3-Dimethylbutane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
2-Propanol	Category 2	Not determined	Not determined
Propane	Category 2	Not determined	Not determined
Hexane	Category 2	Not determined	Not determined
2-Methylpentane	Category 2	Not determined	Not determined
3-Methylpentane	Category 2	Not determined	Not determined
2,3-Dimethylbutane	Category 2	Not determined	Not determined

Aspiration hazard

Name	Result
Propane	ASPIRATION HAZARD - Category 1
Hexane	ASPIRATION HAZARD - Category 1
2-Methylpentane	ASPIRATION HAZARD - Category 1
3-Methylpentane	ASPIRATION HAZARD - Category 1
2,3-Dimethylbutane	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

- Skin contact** : Adverse symptoms may include the following:
 irritation
 redness
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
 nausea or vomiting
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

- General** : May cause damage to organs through prolonged or repeated exposure.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	7553.9 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2-Propanol	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
Methyl Acetate	Acute LC50 320000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-Propanol	-	-	Readily

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Hexane	-	501.187	high

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1 	2.1 	2.1 	2.1 	2.1 
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	<u>Special provisions</u> LIMITED QUANTITY	<u>Special provisions</u> LIMITED QUANTITY	<u>Special provisions</u> (ERG#126)	<u>Special provisions</u> LIMITED QUANTITY	<u>Emergency schedules (EmS)</u> LIMITED QUANTITY, F-D, S-U

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Section 14. Transport information

Transport in bulk according : Not available.
to Annex II of MARPOL
73/78 and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations :

State regulations

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	3
Flammability		4
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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Section 16. Other information

Shuffleboard Combination

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision date: 07/21/2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Identification

Product form : Mixture
Product name : Shuffleboard Combination
Product code : 2077-1700

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Floor polishes

1.3. Details of the supplier of the safety data sheet

Valley Dynamo L.P.
7115 Belton Street
Richland Hills, TX 76118
T (817) 284-3499

1.4. Emergency telephone number

Emergency number : (800) 535-5053

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

STOT SE 3 H336 - May cause drowsiness or dizziness

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H336 - May cause drowsiness or dizziness
Precautionary statements (GHS-US) : P261 - Avoid breathing dust/mist/spray
P271 - Use only outdoors or in a well-ventilated area
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P312 - Call a poison center/doctor/... if you feel unwell
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Shuffleboard Combination

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Name	Product identifier	%	Classification (GHS-US)
Mineral Spirits	(CAS No) 64742-48-9	>= 80	Flam. Liq. 3, H226 Acute Tox. 3 (Inhalation:vapour), H331 STOT SE 3, H336 Asp. Tox. 1, H304

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/mist/spray.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust/mist/spray. Use only outdoors or in a well-ventilated area.

Shuffleboard Combination

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool, well ventilated place away from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves/eye protection/face protection protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: amber
Odor	: Mineral Spirits
Odor threshold	: No data available
pH	: N/A
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 212 - 220 °F
Flash point	: > 200 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: 0.78
Relative vapor density at 20 °C	: No data available
Solubility	: Miscible with water. Water: Solubility in water of component(s) of the mixture : • : < 0.1 g/100ml • : < 0.1 g/100ml
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

Shuffleboard Combination

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Mineral Spirits (64742-48-9)	
LD50 oral rat	> 5000 mg/kg (Rat; Similar product)
LD50 dermal rat	> 5000 mg/kg (Rat; Similar product)
LC50 inhalation rat (mg/l)	4.95 mg/l/4h (Rat; Similar product)
ATE US (vapors)	4.950 mg/l/4h
ATE US (dust, mist)	4.950 mg/l/4h

Skin corrosion/irritation : Not classified
pH: N/A

Serious eye damage/irritation : Not classified
pH: N/A

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Mineral Spirits (64742-48-9)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

SECTION 12: Ecological information

12.1. Toxicity

Mineral Spirits (64742-48-9)	
LC50 fish 1	1000 mg/l (96 h; Pisces)
EC50 Daphnia 1	1000 mg/l (Amphipoda)
LC50 fish 2	1000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	1000 mg/l (EC0; 48 h)
Threshold limit algae 1	100 mg/l (NOEL; 72 h)
Threshold limit algae 2	> 1000 mg/l (EC50; 72 h)

12.2. Persistence and degradability

Shuffleboard Combination	
Persistence and degradability	Not established.

Shuffleboard Combination

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Mineral Spirits (64742-48-9)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

Shuffleboard Combination	
Bioaccumulative potential	Not established.

Mineral Spirits (64742-48-9)	
Log Pow	> 3
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/regional/national/international regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Mineral Spirits (64742-48-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Revision date : 07/21/2015

Shuffleboard Combination

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other information : None.

Full text of H-phrases:

Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 3	Flammable liquids Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness

HMIS III Rating

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection

: B

B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

SF96-1000

Section 1. Product and company identification

Product name : SF96-1000
Chemical name : DIMETHYLPOLYSILOXANES

Manufacturer/Importer/Distributor Information : Momentive Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Contact person : commercial.services@momentive.com

Telephone : General information
+1-800-295-2392

Emergency telephone number
Supplier : CHEMTREC
1-800-424-9300

Section 2. Hazards identification

Classification of the substance or mixture : Not classified.
GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

General : Not applicable.
Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Other hazards which do not result in classification : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Chemical name : Not available

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first aid personnel	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	:	Use dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	:	water jet
Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	:	Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Special protective equipment for fire-fighters	:	Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see section 8 of SDS).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters**Occupational exposure limits**

None.

- Appropriate engineering controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties**Appearance**

- Physical state** : Liquid
- Color** : colorless.
- Odor** : Odorless/Odourless
- Odor threshold** : Not available

Version: 1.0

Date of issue/Date of revision: 05/04/2015

Date of previous issue: 00/00/0000

pH	:	Not applicable.
Melting point	:	Not available
Boiling point	:	200 °C (392.00 °F) Pungent
Flash point	:	300 °C (572.00 °F)
Burning time	:	Not available
Burning rate	:	Not available
Evaporation rate	:	1
Flammability (solid, gas)	:	Not available
Lower and upper explosive (flammable) limits	:	Lower: Not applicable. Upper: Not applicable.
Vapor pressure	:	1.33 hPa @ 20 °C (68.00 °F)
Vapor density	:	Greater than 1.0 [Air = 1]
Relative density	:	0.96
Density	:	0.960 g/cm3
Solubility	:	Soluble in toluene
Solubility in water	:	Insoluble
Partition coefficient: n-octanol/water	:	Not available
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available
SADT	:	Not available
Viscosity	:	Dynamic: Not available Kinematic: Not available
Volatile organic content	:	14 g/l

Other information

No additional information.

Section 10. Stability and reactivity

Reactivity	:	Stable under normal conditions.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	No specific data.
Incompatible materials	:	No specific data.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
SF96 1000				
	LD50 Oral	Rat - male and female	> 5,000 mg/kg	-
	LD50 Oral	Rat	> 5,000 mg/kg 16 CFR 1500.3(c)(2)(i)	-
	LC50 Inhalation	Rat	> 535 mg/l	1 h
	LC50 Inhalation	Rat	695 mg/l OECD Test Guideline 403	4 h
	LD50 Dermal	Rabbit	> 10,000 mg/kg	-
	LD50 Dermal	Rabbit	> 2,000 mg/kg	-

Conclusion/Summary : Not determined

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SF96 1000	eyes	Rabbit			-
Remarks:	Non-irritating to the eyes.				
	Skin	Rabbit			-
Remarks:	Non-irritant to skin.				

Conclusion/Summary

Skin : Not determined
 eyes : Not determined
 Respiratory : Not determined

Sensitization

Product/ingredient name	Route of exposure	Species	Result
SF96 1000	Magnusson-Kligmann	Guinea pig	Negative OECD-Guideline 406 (Skin Sensitisation)
Remarks:	Did not cause sensitization on laboratory animals.		
	-	Guinea pig	Non sensitizing. Magnusson-Kligmann

Conclusion/Summary

Skin : Not determined
 Respiratory : Not determined

Mutagenicity

Conclusion/Summary : Not determined

Carcinogenicity

Conclusion/Summary : Not determined

Reproductive toxicity

Conclusion/Summary : Not determined

Teratogenicity

Conclusion/Summary : Not determined

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Not available

Information on the likely routes of exposure : Not available

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available
Potential delayed effects : Not available

Long term exposure

Potential immediate effects : Not available
Potential delayed effects : Not available

Potential chronic health effects

Conclusion/Summary : Not determined

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards. Not classified based on available information.
Mutagenicity : An analogous material was negative in a bacterial reverse (Salmonella typhimurium/Escherichia coli) mutation assay.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : 40 CFR 978.1150

Numerical measures of toxicity

Acute toxicity estimates

Not available

Section 12. Ecological information

Ecotoxicity

Conclusion/Summary : Not available

Persistence/degradability

Conclusion/Summary : Not available

Mobility in soil

Soil/water partition coefficient (KOC) : Not available

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. See Section 8 for information on appropriate personal protective equipment.

Section 14. Transport information

Special precautions for user : This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

15.Regulatory information

United States

U.S. Federal regulations : United States - TSCA 12(b) - Chemical export notification: None required.
 United States - TSCA 5(a)2 - Final significant new use rules: Not listed
 United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed
 United States - TSCA 5(e) - Substances consent order: Not listed

SARA 311/312

Classification : Not applicable.

California Prop. 65: : None required.

Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).
 Not controlled under WHMIS (Canada).

International regulations

International lists : Australia inventory (AICS): This material is listed or exempted.
 Canada inventory: This material is listed or exempted.
 Japan inventory: This material is listed or exempted.
 Korea inventory: This material is listed or exempted.
 New Zealand Inventory (NZIoC): This material is listed or exempted.
 Philippines inventory (PICCS): This material is listed or exempted.
 United States inventory (TSCA 8b): This material is listed or exempted.
 China inventory (IECSC): This material is listed or exempted.
 Taiwan inventory (CSNN): This material is listed or exempted.

Section 16. Other information

Hazardous Material Information System III (U.S.A.) :

Health	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

Full text of abbreviated H statements : Not applicable.

History

Date of printing : 04/25/2016
 Date of issue/Date of revision : 05/04/2015
 Date of previous issue : 00/00/0000
 Version : 1.0

Prepared by	:	Product Safety Stewardship
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations
References	:	Not available

Notice to reader

Unless otherwise specified in section 1, Momentive Products are intended for industrial application only. They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives. Keep out of the reach of children.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Safety Data Sheet

Startex Odorless Paint Thinner

Version 1.4

Revision Date: 03/06/2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Startex Odorless Paint Thinner

Recommended use of the chemical and restrictions on use

Recommended use : Paint related material.

Manufacturer or supplier's details

Company : Nexeo Solutions LLC - STARTEX™
Address : 3 Waterway Square Place Suite 1000
The Woodlands, TX. 77380
United States of America

Emergency telephone number:

Health North America: 1-855-NEXEO4U (1-855-639-3648)

Health International: 1-855-NEXEO4U (1-855-639-3648)

Transport North America: CHEMTREC (1-800-424-9300)

Additional Information: : Responsible Party: Product Safety Group
E-Mail: msds@nexeosolutions.com
SDS Requests: 1-855-429-2661
SDS Requests Fax: 1-281-500-2370
Website: www.nexeosolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Specific target organ toxicity
- single exposure : Category 3 (Central nervous system)

Aspiration hazard : Category 1

GHS Label element

Hazard pictograms



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.



Safety Data Sheet

Startex Odorless Paint Thinner

Version 1.4

Revision Date: 03/06/2017

Precautionary statements

: Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical Name	Weight %
64741-65-7 /	Naphtha (petroleum), heavy alkylate AND/OR	90 - 100
64742-48-9	Naphtha (petroleum), hydrotreated heavy	

Any Concentration shown as a range is due to batch variation.



Safety Data Sheet

Startex Odorless Paint Thinner

Version 1.4

Revision Date: 03/06/2017

SECTION 4. FIRST AID MEASURES

- | | |
|-------------------------|---|
| General advice | : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended. |
| If inhaled | : Consult a physician after significant exposure.
If unconscious place in recovery position and seek medical advice. |
| In case of skin contact | : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes. |
| In case of eye contact | : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear.
Do not induce vomiting without medical advice.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital. |

SECTION 5. FIREFIGHTING MEASURES

- | | |
|---------------------------------------|---|
| Suitable extinguishing media | : Alcohol-resistant foam
Carbon dioxide (CO ₂)
Dry chemical |
| Unsuitable extinguishing media | : High volume water jet |
| Specific hazards during fire-fighting | : Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : Carbon oxides
sulfur oxides
Hydrogen sulfide
Sulphuric acid |
| Further information | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |



Safety Data Sheet

Startex Odorless Paint Thinner

Version 1.4

Revision Date: 03/06/2017

For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.



Safety Data Sheet

Startex Odorless Paint Thinner

Version 1.4

Revision Date: 03/06/2017

Observe label precautions.
Electrical installations / working materials must comply with
the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
64741-65-7 / 64742-48-9	Naphtha (petroleum), heavy alkylate AND/OR Naphtha (petroleum), hydrotreated heavy	TWA	500 ppm 2,000 mg/m ³	OSHA Z-1
		TWA	400 ppm 1,600 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Clear, Colorless

Odour : Hydrocarbon-like

Odour Threshold : No data available



Safety Data Sheet

Startex Odorless Paint Thinner

Version 1.4

Revision Date: 03/06/2017

pH	: No data available
Freezing Point	: No data available
Boiling Point ()	: 175 - 195 °C (347 - 383 °F)
Flash point	: 51 - 54 °C (124 - 129 °F)
Evaporation rate	: > 0.1 (Butyl Acetate = 1)
Flammability (solid, gas)	: No data available
Upper explosion limit	: 7 %(V)
Lower explosion limit	: 0.6 %(V)
Vapour pressure	: 0.52 - 0.56 mmHg @ 20 °C (68 °F)
Relative vapour density	: > 1 @ 20 - 25 °C (68 - 77 °F) (Air = 1.0)
Relative density	: 0.758 - 0.759 @ 15.6 °C (60.1 °F)
Density	: 0.757 g/cm3 @ 15.6 °C (60.1 °F)
Solubility(ies) Water solubility	: Negligible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: 343 - 348 °C
Thermal decomposition	: No data available
Viscosity Viscosity, kinematic	: 1.43 mm2/s @ 40 °C (104 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.



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Incompatible materials : Strong oxidizing agents
Strong reducing agents

Hazardous decomposition products : Carbon oxides
Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

64741-65-7 / 64742-48-9:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Components:

64741-65-7 / 64742-48-9:

Species: Rabbit

Result: Irritating to skin.

Serious eye damage/eye irritation

Components:

64741-65-7 / 64742-48-9:

Species: Rabbit

Result: Irritating to eyes.

Respiratory or skin sensitisation

Components:

64741-65-7 / 64742-48-9:

Test Type: Buehler Test

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

64741-65-7 / 64742-48-9:



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Germ cell mutagenicity - Assessment : Mutagenicity classification not possible from current data

Carcinogenicity

Components:

64741-65-7 / 64742-48-9:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

Components:

64741-65-7 / 64742-48-9:

Reproductive toxicity - Assessment : Fertility classification not possible from current data.

Teratogenicity - Assessment : Embryotoxicity classification not possible from current data.

STOT - single exposure

Components:

64741-65-7 / 64742-48-9:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Aspiration toxicity

Components:

64741-65-7 / 64742-48-9:

May be fatal if swallowed and enters airways.



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Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

64741-65-7 / 64742-48-9:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4.5 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test

Acute aquatic toxicity- Assessment : Toxic to aquatic life.

Chronic aquatic toxicity- Assessment : Toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

64741-65-7 / 64742-48-9:

Biodegradability : aerobic
Exposure time: 28 d
Remarks: Readily biodegradable

Bioaccumulative potential

Components:

64741-65-7 / 64742-48-9:

Partition coefficient: n-octanol/water : log Pow: 3.3 - 5.3



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Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1268, PETROLEUM DISTILLATES, N.O.S., CBL, III

IATA (International Air Transport Association):

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III

IMDG (International Maritime Dangerous Goods):

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III, Marine Pollutant (MIXTURE OF PETROLEUM DISTILLATES) , Flash Point:51 - 54 °C(124 - 129 °F)

Special Notes:

: The flash point for this material is greater than 100 F (38 C). Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

SECTION 15. REGULATORY INFORMATION

WHMIS Classification

: B3: Combustible Liquid
D2B: Toxic Material Causing Other Toxic Effects



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EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
Immediate (Acute) Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

64741-65-7 /	Naphtha (petroleum), heavy alkylate	90 - 100 %
64742-48-9	AND/OR Naphtha (petroleum), hydrotreated heavy	

New Jersey Right To Know

64741-65-7 /	Naphtha (petroleum), heavy alkylate	90 - 100 %
64742-48-9	AND/OR Naphtha (petroleum), hydrotreated heavy	

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



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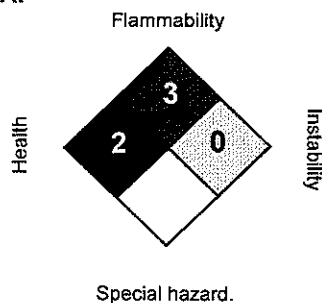
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The components of this product are reported in the following inventories:

TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PHIL	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

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Material number:

16106268, 16106264, 16067489, 16067488, 16067581, 16067580, 16067579, 16067578,
16056566, 16056565, 16056564, 16056563, 16056562

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Gov-	LD50	Lethal Dose 50%
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	ernment Industrial Hygienists		
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50			Lethal Concentration 50%