

SAFETY DATA SHEET



LUMIANTE

Version 1.1 Revision Date: 01/31/2022 SDS Number: 800080006135 Date of last issue: 12/09/2021
Date of first issue: 12/09/2021

Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. IDENTIFICATION

Product name : LUMIANTE

Manufacturer or supplier's details

COMPANY IDENTIFICATION

Manufacturer/importer : CORTEVA AGRISCIENCE LLC
9330 ZIONSVILLE RD
INDIANAPOLIS, IN, 46268-1053
UNITED STATES

Customer Information Number : 1-800-258-3033

E-mail address : customerinformation@corteva.com

Emergency telephone : INFOTRAC (CONTRACT 84224).
800-992-5994 or 317-337-6009

Recommended use of the chemical and restrictions on use

Recommended use : Seed Treatment

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Inhalation) : Category 4

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H332 Harmful if inhaled.

Precautionary Statements : **Prevention:**

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P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 P271 Use only outdoors or in a well-ventilated area.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Ethaboxam [ISO]	162650-77-3	34.2
Glycerol	56-81-5	>= 1 - < 3
disodium tetraborate decahydrate	1303-96-4	>= 0.1 - < 0.3
Balance	Not Assigned	> 60

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
 Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
 For medical emergencies involving this product, call toll free 1-888-226-8832. See Label for Additional Precautions and Directions for Use.
 For medical emergencies involving this product, call toll free 1-888-226-8832. See Label for Additional Precautions and Directions for Use.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
 If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
 Call a poison control center or doctor for treatment advice.
 If breathing has stopped, apply artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.
 Rinse skin immediately with plenty of water for 15-20 minutes.
 Call a poison control center or doctor for treatment advice.
- In case of eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
 Call a poison control center or doctor for treatment advice.
- If swallowed : Call a physician or poison control center immediately.
 Have person sip a glass of water if able to swallow.
 DO NOT induce vomiting unless directed to do so by a physician or poison control center.

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Most important symptoms and effects, both acute and delayed : Do not give anything by mouth to an unconscious person.
: None known.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray
Alcohol-resistant foam

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health. Do not allow run-off from fire fighting to enter drains or water courses.

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
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.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g., by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.
Prevent from entering into soil, ditches, sewers, undewater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up : Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped,
Recovered material should be stored in a vented container.

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The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-pressurization of the container.
 Keep in suitable, closed containers for disposal.
 Wipe up with absorbent material (e.g. cloth, fleece).
 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
 See Section 13, Disposal Considerations, for additional information.

SECTION 7. HANDLING AND STORAGE

- Local/Total ventilation : Use with local exhaust ventilation.
- Advice on safe handling : Do not breathe vapors/dust.
 Do not smoke.
 Handle in accordance with good industrial hygiene and safety practice.
 Smoking, eating and drinking should be prohibited in the application area.
 Do not get on skin or clothing.
 Do not breathe vapors or spray mist.
 Do not swallow.
 Avoid contact with eyes.
 Keep container tightly closed.
 Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage : Store in a closed container.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Keep in properly labeled containers.
 Store in accordance with the particular national regulations.
- Materials to avoid : Strong oxidizing agents
 Organic peroxides
 Explosives
 Gases
- Packaging material : Unsuitable material: None known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (mist, total dust)	15 mg/m ³	OSHA Z-1
disodium tetraborate decahydrate	1303-96-4	TWA (Inhalable particu-	2 mg/m ³ (Borate)	ACGIH

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		late matter)		
		STEL (Inhalable particulate matter)	6 mg/m3 (Borate)	ACGIH

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Hand protection

Remarks : Protective gloves

Eye protection : Wear protective eyewear to prevent contact with this substance.

Skin and body protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

Protective measures : All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. End users of this product should follow label instructions for personal protection when using this product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : off-white

Odor : paint

Odor Threshold : No data available

pH : 8.3

Melting point/range : Not applicable

Freezing point : No data available

Boiling point/boiling range : > 212 °F / > 100 °C

Flash point : > 209.8 °F / > 98.8 °C

Evaporation rate : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

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Relative vapor density : No data available
Density : 1.120 g/cm³ (68 °F / 20 °C)
Solubility(ies)
Water solubility : No data available
Autoignition temperature : No data available
Viscosity
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.
Chemical stability : No decomposition if stored and applied as directed.
Stable under normal conditions.
Possibility of hazardous reactions : Stable under recommended storage conditions.
No hazards to be specially mentioned.
May form explosive dust-air mixture.
Conditions to avoid : None known.
Incompatible materials : None.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 2.73 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Components:

Glycerol:

Acute oral toxicity : LD50 (Rat): > 11,500 mg/kg
Remarks: Excessive exposure may cause:
Central nervous system effects.
Observations in humans include:
Altered blood sugar levels.
Acute inhalation toxicity : LC50 (Rat): > 2.75 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

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Symptoms: No deaths occurred following exposure to a saturated atmosphere.
 Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Guinea pig): \geq 56,750 mg/kg

disodium tetraborate decahydrate:

Acute oral toxicity : LD50 (Rat, male): > 2,500 mg/kg
 Method: OECD Test Guideline 401
 Symptoms: No deaths occurred at this concentration.
 Remarks: Toxicity from swallowing may be greater in humans than in animals.
 May cause central nervous system effects.
 May cause nausea and vomiting.
 May cause abdominal discomfort or diarrhea.
 Excessive exposure may cause cardiovascular collapse or shock.

Acute inhalation toxicity : Remarks: Dust may cause irritation to upper respiratory tract (nose and throat).

LC50 (Rat, male and female): > 2.04 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Method: OECD Test Guideline 403
 Symptoms: No deaths occurred at this concentration.
 Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
 Symptoms: No deaths occurred at this concentration.
 Assessment: The substance or mixture has no acute dermal toxicity
 Remarks: For similar material(s):
 Signs and symptoms of excessive exposure may include:
 May cause central nervous system depression.
 Gastrointestinal irritation.

Skin corrosion/irritation**Product:**

Species : Rabbit
 Result : slight irritation

Components:**Glycerol:**

Result : No skin irritation

disodium tetraborate decahydrate:

Result : No skin irritation

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Serious eye damage/eye irritation**Product:**

Species : Rabbit
Result : No eye irritation

Components:**Glycerol:**

Result : No eye irritation

disodium tetraborate decahydrate:

Result : Eye irritation

Respiratory or skin sensitization**Product:**

Species : Guinea pig
Assessment : Does not cause skin sensitization.

Germ cell mutagenicity**Components:****Ethaboxam [ISO]:**

Germ cell mutagenicity - Assessment : In vitro tests did not show genotoxic effects

Glycerol:

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative.

disodium tetraborate decahydrate:

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

Carcinogenicity**Components:****Ethaboxam [ISO]:**

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

Glycerol:

Carcinogenicity - Assessment : For the major component(s);, Did not cause cancer in laboratory animals.

disodium tetraborate decahydrate:

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

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IARC No ingredient 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 on OSHA's list of regulated carcinogens.

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

Reproductive toxicity**Product:**

Reproductive toxicity - Assessment : No toxicity to reproduction

Components:**Ethaboxam [ISO]:**

Reproductive toxicity - Assessment : Development effects were not observed in laboratory animals., In animal studies, has been shown to interfere with fertility.
Did not cause birth defects in laboratory animals.

Glycerol:

Reproductive toxicity - Assessment : Reproductive effects seen in female animals are believed to be due to altered nutritional states resulting from extremely high doses of glycerine given in the diet. Similar effects have been seen in animals fed synthetic diets.
Did not cause birth defects or any other fetal effects in laboratory animals.

disodium tetraborate decahydrate:

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments., Clear evidence of adverse effects on sexual function and fertility, based on animal experiments.

In animal studies, has been shown to interfere with fertility.
Has been toxic to the fetus in lab animals at doses nontoxic to the mother.

STOT-single exposure**Product:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Components:**Ethaboxam [ISO]:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

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Glycerol:

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

disodium tetraborate decahydrate:

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

STOT-repeated exposure

Product:

Assessment : Evaluation of available data suggests that this material is not an STOT-RE toxicant.

Repeated dose toxicity

Components:

Ethaboxam [ISO]:

Remarks : No relevant data found.

Glycerol:

Remarks : Excessive exposure to glycerine may cause increased fat levels in blood.

disodium tetraborate decahydrate:

Remarks : In humans, symptoms may include:
May cause central nervous system depression.
May cause dizziness and drowsiness.
Headache.
Respiratory effects.
In humans, effects have been reported on the following organs:
Central nervous system.
In animals, effects have been reported on the following organs:
Testes.

Remarks : Reproductive System

Aspiration toxicity

Product:

Based on physical properties, not likely to be an aspiration hazard.

Components:

Ethaboxam [ISO]:

Based on physical properties, not likely to be an aspiration hazard.

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Glycerol:

Based on physical properties, not likely to be an aspiration hazard.

disodium tetraborate decahydrate:

Based on physical properties, not likely to be an aspiration hazard.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Ethaboxam [ISO]:**

Toxicity to fish	:	LC50 (Fathead minnow): > 4.6 mg/l Exposure time: 96 h
		LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)): 2.3 mg/l Exposure time: 96 h
		LC50 (Sheepshead minnow (<i>Cyprinodon variegatus</i>)): > 3.1 mg/l Exposure time: 96 h
		LC50 (Fish): 0.42 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (<i>Daphnia magna</i>): 0.35 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (green algae): 3.6 mg/l Exposure time: 96 h
		EC50 (algae): 0.38 mg/l Exposure time: 96 h
M-Factor (Acute aquatic toxicity)	:	1
M-Factor (Chronic aquatic toxicity)	:	1
Toxicity to terrestrial organisms	:	oral LD50 (<i>Colinus virginianus</i> (Bobwhite quail)): > 2,000 mg/kg
		oral LD50 (<i>Poephila guttata</i> (zebra finch)): > 2,000 mg/kg
		dietary LC50 (<i>Colinus virginianus</i> (Bobwhite quail)): 5,000 ppm
		dietary LC50 (<i>Anas platyrhynchos</i> (Mallard duck)): 5,620 ppm

Glycerol:

Toxicity to fish	:	LC50 (<i>Pimephales promelas</i> (fathead minnow)): \geq 885 mg/l Exposure time: 96 h
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Test Type: static test
Method: Method Not Specified.

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1,955 mg/l
Exposure time: 48 h
Test Type: static test
Method: Method Not Specified.

Toxicity to algae/aquatic plants : EC50 (Other): 2,900 mg/l
End point: Growth inhibition (cell density reduction)
Exposure time: 192 h
Test Type: static test
Method: Method Not Specified.

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Method: OECD 209 Test

disodium tetraborate decahydrate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 79.7 mg/l
Exposure time: 96 h
Remarks: For similar material(s):

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 141 mg/l
Exposure time: 48 h
Method: Method Not Specified.
Remarks: For similar material(s):
Boron

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 52.4 mg/l
End point: Growth rate inhibition
Exposure time: 72 h
Method: OECD Test Guideline 201 or Equivalent
Remarks: For similar material(s):
Boron

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 6.4 mg/l
End point: mortality
Exposure time: 34 d
Test Type: semi-static test
Method: OECD Test Guideline 210
Remarks: For similar material(s):

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 10.8 mg/l
End point: number of offspring
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: For similar material(s):

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Persistence and degradability**Components:****Glycerol:**

Biodegradability : Result: Readily biodegradable.
Remarks: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

Biodegradation: 63 %
Exposure time: 14 d
Method: OECD Test Guideline 301C or Equivalent
Remarks: 10-day Window: Not applicable

ThOD : 1.22 kg/kg

disodium tetraborate decahydrate:

Biodegradability : Remarks: Biodegradability is not applicable to inorganic substances.

Bioaccumulative potential**Components:****Glycerol:**

Partition coefficient: n-octanol/water : log Pow: -1.76 (68 °F / 20 °C)
Method: Measured
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

disodium tetraborate decahydrate:

Partition coefficient: n-octanol/water : log Pow: -1.53
Method: Estimated.
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Balance:

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

Mobility in soil**Components:****Glycerol:**

Distribution among environmental compartments : Koc: 1
Method: Estimated.
Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).
Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

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disodium tetraborate decahydrate:

Distribution among environmental compartments : Remarks: No relevant data found.

Balance:

Distribution among environmental compartments : Remarks: No relevant data found.

Other adverse effects**Components:****Glycerol:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is readily biodegradable and thus is not considered persistent or very persistent (P or vP).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

disodium tetraborate decahydrate:

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Balance:

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

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SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Ethaboxam)
Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Ethaboxam)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo : 964
aircraft)
Packing instruction (passen- : 964
ger aircraft)

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Ethaboxam)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes
Remarks : Stowage category A

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation**49 CFR**

Not regulated as a dangerous good

Further information

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

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.

US State Regulations

Pennsylvania Right To Know

Glycerol

56-81-5

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

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil

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Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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