



Revisi	on date 09/23/2016
1 Identification	
Product identifier	
Product name: <u>D-Epoxone</u>	
Stock number: L18989 CAS Number: 18422-53-2	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-32 <u>2</u> -4757	
Email: tech@alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928	-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable	
Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable	
WHMIS classification Not controlled Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I FIRE I FRACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description:	
18422-53-2 D-Epoxone	
4 First-aid measures	
Description of first aid measures After inhalation Supply free bir it required provide artificial requiration. Keen notions were	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immediate medical advice.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media	
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	
Carbon monoxide and carbon dioxide Advice for firefighters	
Protective equipment: Wear self-contained respirator	
Wear fully protective impervious suit.	
6 Accidental release measures Personal processions, protective equipment and emergency procedures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Envire adequate verification Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Pick up mechanically.	
Prevention of secondary hazards: No special measures required. Reference to other sections	
See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.	
	(Contd. on page 2) USA

Product name: D-Epoxone

See Section 13 for disposal information.

See Section 13 for disposal information.	
7 Handling and storage	
Handling	
Precautions for safe handling	
Keep container tightly sealed. Store in cool, dry place in tightly closed	containers
Information about protection against	explosions and fires: No information known.
Conditions for safe storage, including	any incompatibilities
Storage	
	ns and receptacles: No special requirements. Imon storage facility: Store away from oxidizing agents.
Further information about storage co	nditions:
Keep container tightly sealed. Store in cool, dry conditions in well sealed.	ed containers
Specific end use(s) No further relevant	information available.
0 E 	
8 Exposure controls/personal prote	
Additional information about design of Properly operating chemical fume hood	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Control parameters	
Components with limit values that red	guire monitoring at the workplace:
The product does not contain any releva	ant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: No data	
Exposure controls Personal protective equipment	
General protective and hygienic meas	sures
The usual precautionary measures for h Keep away from foodstuffs, beverages a	andling chemicals should be followed.
Remove all soiled and contaminated clo	thing immediately.
Wash hands before breaks and at the el	nd of work.
Breathing equipment: Use suitable res	vorking environment. pirator when high concentrations are present.
Recommended filter device for short	term use:
Use a respirator with type N95 (USA) or	PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- nly use equipment tested and approved under appropriate government standards.
Protection of hands:	ny use equipment testeu anu approveu unuer appropriate government stanuarus.
Impervious gloves	
Check protective gloves prior to each us The selection of suitable gloves not only	e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
Eye protection: Safety glasses Body protection: Protective work cloth	
Body protection: Protective work cloth	ng.
9 Physical and chemical properties	
Information on basic physical and ch	emical properties
General Information	
Appearance: Form:	Crystalline powder
Odor:	Nót determined
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range:	101-103 °C (214-217 °F)
Boiling point/Boiling range:	Not determined
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
Danger of explosion: Explosion limits:	Not determined.
Lower:	Not determined
Upper: Vapor pressure:	Not determined Not applicable.
Density:	Not de'termined
Relative density	Not determined.
Vapor density Evaporation rate	Not applicable. Not applicable.
Solubility in / Miscibility with	
Water: Partition coefficient (n-octanol/water)	Not determined
Viscosity:	, Not determined.
dynamic:	Not applicable.
kinematic: Other information	Not applicable. No further relevant information available.
10 Stability and reactivity	
Reactivity No information known.	
Chemical stability Stable under recom	mended storage conditions.
Thermal decomposition / conditions t	to be avoided: Decomposition will not occur if used and stored according to specifications.

Chemical stability Stable Under recommended storage conditions. **Thermal decomposition** / **conditions to be avoided:** Decomposition will not occur if used and stored according to specifications. **Possibility of hazardous reactions** Reacts with strong oxidizing agents **Conditions to avoid** No further relevant information available. **Incompatible materials:** Oxidizing agents **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

(Contd. of page 1)

USA (Contd. on page 3)

11 Toxicological information 11 Toxicological information 11 Toxicological information 12 Toxicological information 13 Disposed to the sevenity for electronic for classification: No data 25 Min Interfation e correspond: Nav classification: No data 26 Min Interfation e correspond: Nav classification: No data 26 Min Interfation e correspond: Nav classification: No data 27 Min Interfation 27 Min Interfation 28 Min Interfation 29 Min Interfation 20	Product name: D-Epoxone		
https://doi.org/color.col/color.org/color.col/col/col/col/col/col/col/col/col/col/		(Contd. of page	ge 2)
Acter Exploring the direct horon: Sub intraction or correspondences in the construction of the constructi	-		
12 Ecological information Toxicity Against Nock Try: No. Informative prevent information available. Bioeccumulative potential No. Information available. Bioeccumulative potential No. Information available. Mobility in solution Common State	Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this matu Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute Carcinogenic categories	vn. e and chronic toxicity of this substance is not fully known.	
Toticity Aquatic toxicly: No further network information available. Parasistence and degradability No. Lather relevant information available. Persistence and degradability No. Lather relevant information available. Additional ecological information: Persistence and degradability No. Lather relevant information available. Additional ecological information: Persistence and degradability No. Lather relevant information available. Do not allow infinited product on large quantifies to reach ground water, water course or sewage system. Additional ecological information: Other adverse effects No. Under relevant information available. Other adverse effects No. Under relevant information available. 31 Disposal considerations Mass to reacher effects No. Under relevant information available. Other adverse effects No. Under relevant information available. 11 Transport information Mass to reacher effects No. Under relevant information available. Other adverse effects No. Under relevant information available. 00 From sition Diposal must be made according to official regulations. Mot applicable Other adverse effects No. Under Relevant Provider No. Releva	USHA-Ca (Uccupational Safety & Health Administration) Substance is not	IISTEG.	
Wasie treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: 14 Transport information UN-Number DOT, ADN, IMDG, IATA Not applicable Transport hazard class(es) DOT, ADN, ADN, IMDG, IATA Not applicable Transport hazard class(es) DOT, ADN, ADN, IMDG, IATA Not applicable Environmental hazards: Not applicable Environmental hazards: Not applicable. Transport in bulk according to Annex II of MARPOLT378 and the IBC Code Not applicable. Transport/Additional information: DOT VIN "Model Regulation": - 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GYB abal elements Not applicable Hatomet head according to Annex II of MARPOLT378 and the IBC Code not approximation Safety, health and environmental regulations/le	Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	^r course or sewage system.	
Wasie treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: 14 Transport information UN-Number DOT, ADN, IMDG, IATA Not applicable Transport hazard class(es) DOT, ADN, ADN, IMDG, IATA Not applicable Transport hazard class(es) DOT, ADN, ADN, IMDG, IATA Not applicable Environmental hazards: Not applicable Environmental hazards: Not applicable. Transport in bulk according to Annex II of MARPOLT378 and the IBC Code Not applicable. Transport/Additional information: DOT VIN "Model Regulation": - 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GYB abal elements Not applicable Hatomet head according to Annex II of MARPOLT378 and the IBC Code not approximation Safety, health and environmental regulations/le	13 Disposal considerations		-
UN-Number DOT, ADN, MMDG, IATA Not applicable UN proper shipping name DOT, ADN, MMDG, IATA Not applicable Transport hazard class(es) DOT, ADN, MDG, IATA DOT, ADN, MDG, IATA Not applicable Packing group DOT, IMDG, IATA Not applicable Packing group DOT, IMDG, IATA Not applicable Environmental hazards: Not applicable Special precautions for user Not applicable Transport in bulk according to Annex II of MARPOLT3/T8 and the IBC Code Not applicable. Transport/Additional information: OOT Mot OT No UN "Model Regulation": - 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Marine Pollutant (DOT): No Marine roll of this applicable Signal word Not applicable Marine Independent only intromental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted in the order as in applicable Marine Independent only. This product must be used by or directly under the supervision of a textincial qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This produc	Waste treatment methods Recommendation Consult state, local or national regulations to ensure prope Uncleaned packagings:	r disposal.	
UN-Number DOT, ADN, MMDG, IATA Not applicable UN proper shipping name DOT, ADN, MMDG, IATA Not applicable Transport hazard class(es) DOT, ADN, MDG, IATA DOT, ADN, MDG, IATA Not applicable Packing group DOT, IMDG, IATA Not applicable Packing group DOT, IMDG, IATA Not applicable Environmental hazards: Not applicable Special precautions for user Not applicable Transport in bulk according to Annex II of MARPOLT3/T8 and the IBC Code Not applicable. Transport/Additional information: OOT Mot OT No UN "Model Regulation": - 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Marine Pollutant (DOT): No Marine roll of this applicable Signal word Not applicable Marine Independent only intromental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted in the order as in applicable Marine Independent only. This product must be used by or directly under the supervision of a textincial qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This produc	14 Transport information		
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Not applicable Packing group Not applicable Packing group intervention of the second se	UN-Number DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Not applicable Packing group Not applicable Packing group intervention of the second se	UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Class Not applicable Packing group DOT, IMDG, IATA Not applicable Environmental hazards: Not applicable. Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT): No UW "Model Regulation": - 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable - Hational regulations - This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product is not listed on the Canadian Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listed. Prop 65 - Developmental toxicity, ternales is not listed. Prop 65 - Developmental toxicity, breatace is not listed. Prop 65 - Developmental toxicity, breatace is not listed. Prop 65 - Developmental toxicity, fernale Substance is not listed. Prop 65 - Developmental toxicity, fernales dustance is not listed. Prop 65 - Developmental toxicity, m	Transport hazard class(es)		
Packing group DOT, IMDG, LTA Not applicable Environmental hazards: Not applicable. Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": - 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard pictograms Not applicable Signal word Not applicable Signal word Not applicable Nis product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product is not listed on the Canadian Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. Frop 65 - Ohemicals known to cause cancer Substance is not listed.		Not applicable	
Environmental hazards: Not applicable. Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": - 15 Regulatory information - Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms (Not applicable - Hazard statements Not applicable - Hazard statements Not applicable - Hazard statements Not applicable - Marional regulations - This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Cellfor Box 60 per 10 pictosite Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not list	Packing group DOT, IMDG. IATA	Not applicable	
Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": - 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Signal word Not applicable - Hazard pictograms Not applicable - Signal word Not applicable - Mations - This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substances is not listed. Prop 65 - Obevelopmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Develop			
Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": - 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard statements Not applicable Signal word Not applicable Hazard statements Not applicable Hazard statements Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formmetial purposes or in formulations for commercial purposes. This product must not be used tor commercial instances is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations acording to the REACH Regulations (EC) No. 1907/2006. Su		Not applicable.	
DOT Marine Pollutant (DOT): No UN "Model Regulation": - 15 Regulatory information - Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Hazard statements Not applicable Hazard statements Not applicable Hazard statements Not applicable National regulations - This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity female Substance is not listed. Prop 65 - Developmental toxicity female Substance is not listed. Prop 65 - Developmental toxicity female Substance is not listed. Prop 65 - Developmental toxicity female Substance is not listed. Prop 65 - Developmental toxicity female Substance is not listed. P		de Not applicable.	
Marine Pollutant (DOT): No UN "Model Regulation": - 15 Regulatory information - Safety, health and environmental regulations/legislation specific for the substance or mixture - GHS label elements Not applicable - Hazard pictograms Not applicable - Hazard pictograms Not applicable - Mational regulations - This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. - Prop 65 - Chemicals known to cause cancer Substance is not listed. - Prop 65 - Developmental toxicity, female Substance is not listed. - Prop 65 - Developmental toxicity, meals substance is not listed. - Prop 65 - Developmental toxicity, meals ubstance is not listed. - Prop 65 - Developmental toxicity, meals cubstance is not listed. - Prop 65 - Developmental toxicity, meals cubstance is not listed.	DOT		
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Hazard statements Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This product is not the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, act is not listed. Prop 65 - Developmental toxicity, active substance is not listed. Prop 65 - Developmental toxicity, active substance is not listed. Prop 65 - Developmental toxicity, active active substance is not listed. Prop 65 - Developmental toxicity, active ac	Marine Pollutant (DOT):		
	Safety, health and environmental regulations/legislation specific for the s GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Si to research and development only. This product must be used by or directly un product must not be used for commercial purposes or in formulations for comm This product is not listed on the Canadian Domestic Substances List (DSL) or SARA Section 313 (specific toxic chemical listings) Substance is not listed California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified indl Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regula The conditions of restrictions according to Article 67 and Annex XVII of the market and use must be observed. Substance is not listed.	ubstances Control Act Chemical Substance Inventory. Use of this product is restric der the supervision of a technically qualified individual as defined by TSCA. This nercial purposes. the Canadian Non-Domestic Substances List (NDSL).	

Product name: D-Epoxone

Page 4/4 Printing date 09/26/2016 Revision date 09/23/2016

(Contd. of page 3)

16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 09/26/2016 / - Abbreviations and accoryms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Lethal concentration of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA