

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier Product name: Cyclopropylboronic acid pinacol ester
Stock number: H27642
CAS Number: 126689-01-8
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 Theme Fisher Scientific Chemicale, Inc.
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Word Lill. M. 01055, 0000
Ward Hill, MA 01835-8099 Tel: 800-343-0660
Fax: 800-322-4757 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)
GHS02 Flame
Flam. Liq. 3 H226 Flammable liquid and vapour. Hazards not otherwise classified No information known.
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS02
Signal word Warning Hazard statements H226 Flammable liquid and vapour. Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P240 Ground/bond container and receiving equipment. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P403+P235 Store in a weil-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification B3 - Combustible liquid
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
$\begin{array}{c} \text{HEALTH} \\ \textbf{I} \\ \text{Health} (acute effects) = 1 \end{array}$
PRE     Present       Flammability = 2       REACTIVITY     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: 126689-01-8 Cyclopropylboronic acid pinacol ester
4 First-aid measures
Description of first aid measures After inhalation
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 immédiate 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.
(Contd. on page 2)

## (Contd. of page 1)

### 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

Boron oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Netnods and material for containment and cleaning up: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). **Prevention of secondary hazards:** Keep away from ignition sources. **Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

#### 7 Handling and storage

Handling

Recautions for safe handling Receptions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges. Europe on combine with pair to form an explosive mixture. Fumes can combine with air to form an explosive mixture. Keep ignition sources away. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data Exposure controls Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Meintai on organomically conception working any imponent Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Penetration time of glove material (in minutes)** Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liauid Color: Colorless Odor: Not determined Odor threshold: Not determined. pH-value: Not determined Change in condition

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 146 °C (295 °F) Not determined
Flash point:	40 °C (104 °F)
Flammability (solid, gaseous)	Not determined.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined

# Product name: Cyclopropylboronic acid pinacol ester

٦

Auto Apprinting:         Not determined           Denger of explosion:         Product in the application:         Product in the application:           Explosion infinits:         Not determined         Not determined           Web of pressure:         Not determined         Not determined           Schubility of Messibility with         Not determined         Not determined           Web of determined         Not determined         Not determined           Other information         Not determined         Not determined           Other information (no cotanol/water): Not determined         Not determined         Not determined           Other information information         Not determined         Not determined         Not determined           Other information information (no cotanol/water): Not determined         Not determined         Not determined           Other information on toxicological differ conditions         Not determined         Not reserve           If toxicological information         Not determined         Not reserve         Not reserve           If toxicological information         Not r	Contd. of page 2		
Durger of explosion:         Product is not explosive. However, formation of explosive air/vapor mixtures is possible.           Explosion Initias:         Not determined           Upper Session:         Not determined           Density at 20 °C (63 °F):         0.257 gitcm <sup>-1</sup> (7.69 Mbsgal)           Vetor pressure:         Not determined           Officient (n-octanol/water): Not determined         Not determined           Officient (n-octanol/water): Not determined         Not determined           Other information         Not determined           Differ information         Not determined           Constraint         Not function vetwal information available.           ID Stability of inacritity for presented storage conditions.         Thermal decentraint on the press method storage conditions.           Thermal decentraint on the press method storage conditions.         Thermal decentraint on the press method storage conditions.           Thermal decentraint on the press method storage conditions.         Thermal decentraint on the press method storage conditions.           Thermal decentraint on the press methon contraint on			
Explosion linkin: Void dearnined Void Service Void Servic			
Upper:         Not determined           Statistics (C.G. * 7):         Not determined           Official (Information Normation         Not determined           Official (Information Normation         Not determined           Official (Information Normation         Not determined           Constructions to avoid No Authors relevant information available.         Not information           Constructions (C.G. * 7):         Not determined           Information nonxecological effects         Statistics (C.G. * 7):           Control (Information Normation Information available.         Not information           Information nonxecological effects         Statistics (C.G. * 7):           Approximation nonxecological effects         Statistics (C.G. * 7):           Approximation or concological effects         Statistics (C.G. * 7):           Approximation or concological effects         Statistics (C.G. * 7):			
Density et 20 °C (08 °F):       0.62° girm (7.694 hs/sgal)         Native density       Not determined.         Vescolarity:       Not determined.         Synbitity in Miscibility with       Not determined.         Vescolarity:       Not information hour.         Pennetal seconposition hour.       Not Uniter resonant information available.         Incompatible meterials:       Subility in Not information         Incompatible meterials:       Subility in Not information         Incompatible networks to classification: No data       Structure resonant information         Intermation on toxiclogical information information information on toxiclogical information information information on toxiclogical information information information information informat			
Relative density with density of the solution			
Wapper density         Mod determined:           Wapper density         Mod determined:           Water         Mod missible or difficult to mix           Partition coefficient (n-octamivate): Not determined:         Mod determined:           Water         Mod determined:           Mod determined:         Mod determined:           Mod determined:         Mod determined:           Mod determined:         Mod determined:           Water         Mod determin			
Subjecting in / Miscibility with the transcable or difficult to mix dynamic: We cost of the transmission			
Water:         Not inscible or difficult to mix Partition, Performantic:         Not determined.           Other Information:         Not determined.         Not determined.           Ostability and reactivity:         Reductivity No. Information Acadiates reactions No degree supervises reactions Northown         Reductivity No. Information           Pressibility:         Available.         Hindet Strage conditions to available.         Hindet Strage conditions to available.           Hindet coxicity:         No Intellist Stromm.         Earnor available.         Hindet Strage conditions.           11 Toxicological Information         Information on corrosolgical effects         Stromm.         Earnor available.           Shin Infration or corrosolgical effects         Stromm.         Earnor available.         Earnor available.           Shin Infration or corrosolgical files strown.         Securit Stromm.         Earnoro			
Viscosity: dynamic: dynamic: differ information         Not dearmined No further relevant information available.           0 Stability and reactivity Reactivity No. Information known. Chemical stability Stabil under recommended storage conditions. Thermal decomposition / conditions to be available. Thermal decomposition / conditions gents facardous decomposition products: Borno noide           11 Toxicological information Reformation on correstion: Initiant of the subject of			
dynamic: Other information         Not determined No further relevant information available.           0         Stability and reactivity Reactivity Volvinormation from the Reactivity Volvinormation recommended storage conditions.           0         Stability and reactivity Reactivity Volvinormation recommended storage conditions.           70         Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hierore relevant information available.           71         Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of the store relevant information available.           71         Toxicological information Information no noticological effects Acute toxicity: No effects known. Duit 2000 available that are relevant for classification: No data Eventification or corrosten: Initialing effect Acute toxicity: No effects known. Germ cell mutagenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Subacute to chronic toxicity: N			
Other information         No further relevant information available.           10 Stability and reactivity           Reactivity No information known.           Chemical stability Stable inder recommended storage conditions.           Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.           Costsplitting of hazardbus reactions in the analytic and the avoided: Decomposition will not occur if used and stored according to specifications.           Costsplitting of hazardbus reactions in the avoided: Decomposition will not occur if used and stored according to specifications.           Costsplitting of hazardbus reactions in the avoid decimation available.           Incompatible materials: Subility Status           Acute toxicity: No effects known.           LDL CSO values that are relevant for classification: No date           Eye initiation or corrosion: The sensitizing effects.           Sensitization: No sensitizing effects known.           Gern cell mutegenicity: No effects known.           Reproductive toxicity: - respected exposure: No effects known.           Specific target organ system toxicity - respected exposure: No effects known.           Subscure to chronic toxicity: No effects known.           Subscure to chr			
10 Stability and reactivity         Reactivity No information known.         Chemical stability Stable over incommended storage conditions.         Thermal decomposition / conditions to be avoided. Decomposition will not occur if used and stored according to specifications.         Possibility of Nutrie relevant information available.         Hazardous Reactions No dangerous reactions No.         Internation on twicklogical information available.         Matardous States that are relevant for classification: No data         Skin initiation or corrosion: Irritiant to skin and mucous membranes.         Eye Irritiation or corrosion: Irritiant to skin and mucous membranes.         Eye Irritiation or corrosion: Irritiant to skin and mucous membranes.         Eye Irritiation or corrosion: Irritiant to skin and mucous membranes.         Eye Irritiation or corrosion: Irritiant to skin and mucous membranes.         Eye Irritiation or corrosion: Irritiant to skin and mucous membranes.         Eye Irritiation or corrosion: Irritiant to skin and mucous membranes.         Eye Irritiation or corrosion: Irritiant to skin and mucous membranes.         Eye Irritiation or corrosion: Irritiant to skin and mucous membranes.         Eye Irritiation or corrosion: Irritiant to skin and mucous membranes.         Eye Irritiation or corrosion: Irritiant to skin and mucous membranes.         Eye Irritiation to corrosion: Irritiant to skin and mucous membranes.         Specific target organ systeme			
Rescriving No information known.         Chemical study Stable under recommended storage conditions.         Thermial decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.         Possibility Or heardous rections No depression avoidable.         Nonsative Status (Stable exceptions and construction avoidable.         Incompatible materials: Oxidizing agents         Macandous decomposition or oducts:         Carbon monoxide and carbon dixade         Storn monoxide and carbon dixade         Carcinogenicin bio sensition or consoling caless floations.         Storn monoxide and dixade         Storn monoxide and dixade         Carc			
Rescription for a continue of the second storage conditions.       Chemical stability Stable under recommended storage conditions.         Chemical stability Stable under recommended storage conditions.       Chemical stability Stable under recommended storage conditions.         Pressibility of heart of the recommended storage conditions.       Chemical stability Stable under recommended storage composition will not occur if used and stored according to specifications.         Prossibility of heart of the recommended storage conditions.       Pressibility of the stability Stable under recommended storage conditions.         Prossibility of the stability Stable under second stability.       Pressibility of the stability Stable under second stability.         1 Toxicological information       Information or toxicological effects.         Actual toxicological fields known.       Stability Stability and mucous membranes.         Sensitization or corrosion: Infant to skin and mucous membranes.       Stability Stability Stability of effects known.         Germ cell mutagenicity: PAP-1 Date are inadequate for an assessment of human carcinogenic potential.       Repressite toxicity: PAP-1 Date shown.         Specific target organ system.       Boron posicological information:       No effects known.         Subacute to toring toxicity: No effects known.       Subacute to toring toxicity: No effects known.         Subacute to toring toxicity: No effects known.       Subacute to of onthe toxicity: No effects known.         Subacute to toring toxicity: No effects known.			
Possibility of hazardous reactions kinown Conditions to avoid N in Viniter relevant information available. Hazardous decomposition products: Carbon monoxide and carbon dioxide Bron oxide 11 Toxicological information information on toxicological effects LDUC 50 values that are relevant for classification: No data Skin irritation or corrosion: Irritatin to skin and mucous membranes. Eye irritation or corrosion: Irritatin to skin and mucous membranes. Eye irritation or corrosion: Irritatin to skin and mucous membranes. Eye irritation or corrosion: Irritatin to skin and mucous membranes. Eye irritation or corrosion: Irritatin to skin and mucous membranes. Eye irritation or corrosion: Irritatin to skin shift and mucous membranes. Eye irritation or corrosion: Irritatin to skin shift and mucous membranes. Eye irritation or corrosion: Irritatin to skin and mucous membranes. Eye irritation or corrosion: Irritatin to skin shift and mucous membranes. Eye irritation or corrosion: Irritatin to skin shift and mucous membranes. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: Boron affects the central nervous system. Boron polooning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun carditional toxicological information. To the best of cur knowledge the ecute and chronic toxicity of his substance is not fully known. 12 Ecological information Toxicity Auditional toxicological information available. Persistence and degradability No further relevant information available. Persistence and degradability No further relevant information available. Persistence and degradability No further relevant information available. 13 Disposal considerations Mase treatment methods Recommendation: Disposal must be made according to oficial regulations. 14 Transport information UN-Number DOT, I			
Possibility of hazardous reactions known Conditions to avoid No infer relevant information available. Hazardous decomposition products: Carbon monoxide and carbon dioxide Boron oxide 11 Toxicological information Information on toxicological effects LDU CSO valves that are relevant for classification: No data Skin initiation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Specific target organ system toxicity - repeated exposure: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: Boron affects the central nervous system. Boron poleoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun carbon affects the central nervous asystem. Boron poleoning causes depression of the circulation body. Additional toxicological information. To the based of our knowledge the acute and chronic toxicity of his substance is not fully known. 21 Ecological Information Toxicity Aquatis toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Additional toxicological information: 31 Disposal considerations Waste relations toxicitations (acut on national regulations t			
Conditions to avoid No Luther relevant information available. Incompatible materials: Oxizing agoint Control of the intervise of the control movies and carbon dioxide Boron avoide and carbon dioxide I1 Toxicological information Information on toxicological effects Acute toxicity: No effects frown. LDJL C50 values that are relevant for classification: No data toxic toxicological information Control or corrosion: Infiniting effect in the classification: No data toxic toxicological information Information or corrosion: Infiniting effect in the classification: No data toxic toxicological information Carcinogenicity: EP4-I: Data are inadequate for an assessment of human carcinogenic potential. Rem cell mutagenicity: No effects known. Carcinogenicity: EP4-I: Data are inadequate for an assessment of human carcinogenic potential. Represent toxicity: repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Activity and ukocloogical information Toxicity Additional toxicological information Toxicity Auditional toxicological information Toxicity Audit toxicoly: No further relevant information available. Resistence and ediatability unfunctionel available. Resistence and toxicological information Additional ecological information Consider and target and the environment without proper governmental permits. Additional ecological information Consider and the environment without proper governmental permits. Advit target risto the environment without proper governmental permits.			
Hazardous decomposition productis: Carbon moxide       Carbon moxide         11 Toxicological information information on toxicological effects Acute toxicity: No effects known.       Information or corrosion: Irritating effect.         Skin irritation or corrosion: Irritating effect.       Sensitization or corrosion: Irritating effect.         Sensitization: No sensitizizing effects known.       Germ cell mutagenicity: EA: Loss are nadequate for an assessment of human carcinogenic potential.         Germ cell mutagenicity: EA: Loss are nadequate for an assessment of human carcinogenic potential.       Sensitization for corrosion: Irritating effects known.         Specific target organ system toxicity - repeated exposure: No effects known.       Specific target organ system toxicity - repeated exposure: No effects known.         Specific target organ system toxicity - single exposure: No effects known.       Specific target organ system toxicity - repeated exposure: No effects known.         Subacute to chronic toxicity: No effects known.       Specific target organ system toxicity - repeated exposure: No effects known.         Born affines the contral nervice system. Born poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun common affines activity in the entire body.         Additional toxicological information:       To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.         12 Ecological information       Toxicity       August information available.         Persistence and degradability No further relevant			
Carbon monoxide and carbon dioxide Boron oxide I1 Toxicological information Information on toxicological effects Acute toxicological stream elevant for classification: No data Skin infraints on corrosion: Infraint to skin and nuccus membranes. Sensitization: No sensitizing effects known. Carcinogenicity: EPA1: Data are inadequate for an assessment of human carcinogenic potential. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Subacute to chronic toxicity: Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun coma. The temperature methods the environment and ascare and chronic toxicity of this substance is not fully known. I2 Ecological information Toxicity General notes: Gen			
11 Toxicological information         Information on toxicological effects         Acure toxicological information         LD/LCS0 values that are relevant for classification: No data         Skin inritation or corrosion: Irritatin to skin and mucous membranes.         Eye irritation or corrosion: Irritatin to skin and mucous membranes.         Eye irritation or corrosion: Irritatin to skin and mucous membranes.         Eye irritation or corrosion: Irritatin to skin and mucous membranes.         Eye irritation or corrosion: Irritatin to skin and mucous membranes.         Eye irritation or corrosion: Irritatin skin and mucous membranes.         Eye irritation or corrosion: Irritatin skin and mucous membranes.         Specific target organ system toxicity - repeated exposure: No effects known.         Specific target organ system toxicity - repeated exposure: No effects known.         Subactive to chronic toxicity:         Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun coma. The temporature may become subnormal and a scattetina form skin as hara cover the enline body.         Additional toxicological information:         2 Ecological information:         Coxicity:         Additional exclosition: No further relevant information available.         Persistence and degradability No further relevant information available.         Additional ecological information: <th></th>			
Information       not xolcological effects         Acute toxicity: No effects known.       LDL/LSD values that are relevant for classification: No data         Skin infraints on corrosion: Initiating effect.       Somethics         Sensitization or corrosion: Initiating effect.       Somethics         Sensitization or corrosion: Initiating effect.       Somethics         Carcinogenicity: EP4:1: Data are inadequate for an assessment of human carcinogenic potential.       Specific target organ system toxicity - repeated exposure: No effects known.         Specific target organ system toxicity - single exposure: No effects known.       Specific target organ system toxicity - single exposure: No effects known.         Subacute to chronic toxicity: No effects known.       Specific target organ system.       Specific target organ system.         Subacute to chronic toxicity: No effects known.       Specific target organ system.       Specific target organ system.         Subacute to chronic toxicity: No effects known.       Specific target organ system.       Specific target organ system.         Subacute to chronic toxicity: No effects known.       Specific target organ system.       Specific target organ system.         Additional cokicity: No effects known.       Specific target organ system.       Specific target organ system.         Zotokicity: No further relevant information available.       Specific target organ system.       Specific target organ system.         Additional ecolo			
Acute toxicity: No effects known. LDLCSO vulues that are relevant for classification: No data Shin initiation or corrosion: Initiating effect. By initiation or corrosion: Initiating effect. By initiation or corrosion: Initiating effect. Germ cell mutagenicity: No effects known. Carcinogenicity: EPA: Tabla are inadequate for an assessment of human carcinogenic potential. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Appration hazard: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Appration hazard: No effects known. Subacute to chronic toxicity: Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun coma. The temperature may become subnormal and a scafetina form rash may cover the entire body. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 22 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Persistence and degradability No further relevant information available. Mobility in soil No further relevant information available. Mobility in soil No turther relevant inform			
Acute toxicity: No effects known.         LDLC50 values that are relevant for classification: No data         Skin irritation or corrosion: Irritant to skin and muccus membranes.         Eye irritation or corrosion: Irritant to skin and muccus membranes.         Eye irritation or corrosion: Irritant to skin and muccus membranes.         Eye irritation or corrosion: Irritant to skin and muccus membranes.         Eye irritation or corrosion: Irritant to skin and muccus membranes.         Eye irritation or corrosion: Irritant to skin and muccus membranes.         Eye irritation or corrosion: Irritant to skin and muccus membranes.         Eye irritation or corrosion: Irritant to skin and muccus membranes.         Eye irritation or corrosion: Irritant to skin and muccus membranes.         Carcinogenicity: EPA-1: Data are inadequate for an assessment of human carcinogenic potential.         Reproductive toxicity: No effects known.         Suborute to chronic toxicity of the sets known.         Suborute to chronic toxicity:         Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun coma.         Additional toxicological information:         Toxicity         Additional toxicological information:         Toxicity         Aquatic toxicity: No further relevant information available.         Bioaccumulative potental No further relevant information available. </th <th></th>			
Skin irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritating effect. Sensitization: No sensitizing effects known. Garcinogenicity: EPA-I. Data are inadequate for an assessment of human carcinogenic potential. Reproductive toxicity: No effects known. Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun coma. The temperature may become subnormal and a scarleline form rash may cover the entire body. Additional toxicological information: Toxicity Paquatic toxicity: No further relevant information available. Bioaccumulative potential No further relevant information available. Bioaccumulative potential No further relevant information available. Additional ecological information Soft the environment. Seesilis of PBT and VPM assessment PBT: Not applicable. VPWB: Not applicable. VPWB: Not applicable. VPWB: Not applicable. Considerations Waste transment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. If Transport Information UNAVmber Dor, IMDG, IATA UNAVMER Div Subsconte Considerations UNAVMER Div Subscon			
Eye irritation or corrosion: Inritating effect.         Sensitization: No sensitizating effects known.         Germ cell mutagenicity: No effects known.         Specific target organ system toxicity - repeated exposure: No effects known.         Specific target organ system toxicity - repeated exposure: No effects known.         Specific target organ system toxicity - repeated exposure: No effects known.         Specific target organ system toxicity - repeated exposure: No effects known.         Subacute to chronic toxicity: No further relevant information assilable.         Parsistence and degradability No further relevant information available.         Parsistence and degradability No further relevant information available.         Mobility in soil No further relevant information available.         Moditianal ecological information:         General notes:         Do not allow material to be released to the environment without proper governmental permits.         Avadit transfer into the environment.         Resculs of PB1 and VPVB assessment         PB7: Not applicable.			
Germ cell mutagenicity: No effects known. Carcinogenicity: EVA-1 Data are inadequate for an assessment of human carcinogenic potential. Reproductive toxicity: No effects known. Specific target organ system toxicity - speated exposure: No effects known. Specific target organ system toxicity - speated exposure: No effects known. Specific target organ system toxicity - speated exposure: No effects known. Subacute to chronic toxicity: Boron affects the centra nervous system. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun coma. The temperature may become subnormal and a scaletina form rash may cover the entire body. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 22 Ecological information: Toxicity Auditional toxicological information available. Persistence and degradability No further relevant information available. Mobility in soil No further relevant information available. 3 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation Consult state, local or national regulations. 4 Transport information UN-Number DOT, IMIDG, IATA Transport hazard class(es)			
Reproductive toxicity: No effects known.         Specific target organ system toxicity - repeated exposure: No effects known.         Aspiration fnazard: No effects known.         Subacute to chronic toxicity:         Born affects the central nervous system.         Additional toxicological information:         Toxicity:         Additional toxicological information available.         Persistence and degradability. No further relevant information available.         Bioaccumulative potential No further relevant information available.         Bioaccumulative potential No further relevant information available.         Additional ecological information:         General notes:         Do not allow material to be released to the environment without proper governmental permits.         Avoid transfer into the environment.         Results of PBT and vPVB assessment         PBT: Not applicable.         Other adverse effects No further relevant information available.         VPB: Not applicable.         Other adverse effects No further relevant information available.         If an vPVB assessment         PBT: Not applicable.         Other adverse effects No further relevant information av			
Reproductive toxicity: No effects known.         Specific target organ system toxicity - repeated exposure: No effects known.         Aspiration fnazard: No effects known.         Subacute to chronic toxicity:         Born affects the central nervous system.         Additional toxicological information:         Toxicity:         Additional toxicological information available.         Persistence and degradability. No further relevant information available.         Bioaccumulative potential No further relevant information available.         Bioaccumulative potential No further relevant information available.         Additional ecological information:         General notes:         Do not allow material to be released to the environment without proper governmental permits.         Avoid transfer into the environment.         Results of PBT and vPVB assessment         PBT: Not applicable.         Other adverse effects No further relevant information available.         VPB: Not applicable.         Other adverse effects No further relevant information available.         If an vPVB assessment         PBT: Not applicable.         Other adverse effects No further relevant information av			
Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun corma. The temperature may become subnormal and a scaletina form rash may cover the entire body. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. <b>12 Ecological information</b> <b>Toxicity</b> Aquatic toxicity: No further relevant information available. Bioaccumulative potential No further relevant information available. Bioaccumulative applicable. Other adverse effects No further relevant information available. <b>13 Disposal considerations</b> Waste treatment methods Recommendation Cosult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. <b>14 Transport information</b> UN-Number DOT, IMDG, IATA Transport hazard class(es)			
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: No effects who environment and a scartelina form rash may cover the entire body. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Bioaccumulative potential No further relevant information available. Additional cosing of the relevant information available. Additional cosing of the relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional cosing of the relevant information available. Additional cosing of PBT and vPM assessment PBT: Not applicable. VPWB: Not applicable. VPWB: Not applicable. Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: 14 Transport information UN-Number DOT, IMDG, IATA UN3272 UN proper shipping name DOT, IMDG, IATA Transport hazard class(es)			
Subacute to chronic toxicity:       Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun coma. The temperature may become subnormal and a scarletina form rash may cover the entire body.         Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.         12 Ecological information         Toxicity         Aquatic toxicity: No further relevant information available.         Persistence and degradability. No further relevant information available.         Bioaccumulative potential No further relevant information available.         Additional ecological information:         General notes:         Do not allow material to be released to the environment without proper governmental permits.         Avoid transfer into the environment.         Results of PBT and vPvB assessment         PBT: Not applicable.         Other adverse effects No further relevant information available.         13 Disposal considerations         Waste treatment methods         Recommendation: Disposal must be made according to official regulations.         14 Transport information         UN-Number         DoT, IMDG, IATA       UN3272         UN proper shipping name       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)         IMDC, IATA       Esters, N.O.S. (			
Boron affects the central nervious system. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profoun come. The temperature may become subnormal and a scalatelina form rash may cover the entire body. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information 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 material to be released to the environment without proper governmental permits. Avoid transfer into the environment. Results of PBT and vPVB assessment PBT: Not applicable. VPVB: Not applicable. Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation Cousult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, IMDG, IATA UN3272 UN proper shipping name DOT, IMDG, IATA Transport hazard class(es)			
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.         12 Ecological information         Toxicity         Aquatic toxicity: No further relevant information available.         Persistence and degradability No further relevant information available.         Bioaccumulative potential No further relevant information available.         Additional ecological information:         General notes:         Do not allow material to be released to the environment without proper governmental permits.         Avoid transfer into the environment.         Results of PBT and vPVB assessment         PBT: Not applicable.         vPW: Not applicable.         vPW: Not applicable.         vDter adverse effects No further relevant information available.         Mobility in soil state, local or national regulations to ensure proper disposal.         Uncleaned packagings:         Recommendation: Disposal must be made according to official regulations.         14 Transport information         UN-Number         DOT, IMDG, IATA       UN3272         UN proper shipping name       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)         DT mansport hazard class(es)       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)	d shock and		
12 Ecological information         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.         Mobility in soil No further relevant information available.         Mobility in soil No further relevant information available.         Mobility of ecological information:         General notes:         Do not allow material to be released to the environment without proper governmental permits.         Avoid transfer into the environment.         Results of PBT and vPVB assessment         PBT: Not applicable.         Other adverse effects No further relevant information available.         13 Disposal considerations         Waste treatment methods         Recommendation: Disposal must be made according to official regulations.         14 Transport information         UN-Number DOT, IMDG, IATA       UN3272         UN proper shipping name DOT       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)         IMDG, IATA       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Esters)			
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 material to be released to the environment without proper governmental permits.         Avoid transfer into the environment.         Results of PBT and vPvB assessment PBT: Not applicable.         VHVB: Not applicable.         Other adverse effects No further relevant information available.         Maste treatment methods         Recommendation: Disposal considerations         Waste treatment methods         Recommendation: Disposal must be made according to official regulations.         14 Transport information DOT, IMDG, IATA       UN3272         UN proper shipping name DOT, IMDG, IATA       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester) ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Transport hazard class(ester)			
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 material to be released to the environment without proper governmental permits.         Avoid transfer into the environment.         Results of PBT and vPvB assessment         PBT: Not applicable.         VPVB: Not applicable.         Other adverse effects No further relevant information available.         13 Disposal considerations         Waste treatment methods         Recommendation: Disposal must be made according to official regulations.         Uncleaned packagings:         Recommendation: Disposal must be made according to official regulations.         UN-Number         DoT, IMBG, IATA       UN3272         UN proper shipping name       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)         MOG, IATA       ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Farse of the provide ester)			
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 material to be released to the environment without proper governmental permits. Avoid transfer into the environment. Results of PBT and VPVB assessment PBT: Not applicable. VPVB: Not applicable. VPVB: Not applicable. VPVB: Not applicable. VPVB: Not applicable. 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, IMDG, IATA UN proper shipping name DOT IMDG, IATA Transport hazard class(es)			
Bioaccumulative potential No further relevant information available.         Mobility in soil No further relevant information available.         Additional ecological information:         General notes:         Do not allow material to be released to the environment without proper governmental permits.         Avoid transfer into the environment.         Results of PBT and vPVB assessment         PBT: Not applicable.         vPvB: Not applicable.         VPVB: Not applicable.         VPvB: Not applicable.         Variable and verse effects No further relevant information available.         13 Disposal considerations         Waste treatment methods         Recommendation: Disposal nust be made according to official regulations.         14 Transport information         UN-Number       UN3272         UN proper shipping name       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)         DOT, IMDG, IATA       ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)			
Additional ecological information: General notes:       De not allow material to be released to the environment without proper governmental permits. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.         13 Disposal considerations Waste treatment methods Recommendation: Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.         14 Transport information UN-Number DOT, IMDG, IATA       UN3272         UN proper shipping name DOT, IMDG, IATA       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester) ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Transport hazard class(es)			
General notes:       -         Do not allow material to be released to the environment without proper governmental permits.         Avoid transfer into the environment.         Results of PBT and vPvB assessment         PBT: Not applicable.         Other adverse effects No further relevant information available.         13 Disposal considerations         Waste treatment methods         Recommendation Consult state, local or national regulations to ensure proper disposal.         Uncleaned packagings:         Recommendation: Disposal must be made according to official regulations.         14 Transport information         UN-Number         DOT, IMDG, IATA         UN proper shipping name         DOT, IMDG, IATA         UN proper shipping name         DT       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)         ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         FTransport hazard class(es)			
Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, IMDG, IATA UN proper shipping name DOT IMDG, IATA Transport hazard class(es)			
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.         13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.         14 Transport information UN-Number DOT, IMDG, IATA       UN3272         UN proper shipping name DOT IMDG, IATA       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester) ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Family State class(es)			
vPvB: Not applicable. Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, IMDG, IATA UN3272 UN proper shipping name DOT IMDG, IATA Transport hazard class(es) Exters, n.o.s. (Cyclopropylboronic acid pinacol ester) ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)			
13 Disposal considerations         Waste treatment methods         Recommendation Consult state, local or national regulations to ensure proper disposal.         Uncleaned packagings:         Recommendation: Disposal must be made according to official regulations.         14 Transport information         UN-Number         DOT, IMDG, IATA         UN proper shipping name         DOT         IMDG, IATA         Transport hazard class(es)			
13 Disposal considerations         Waste treatment methods         Recommendation Consult state, local or national regulations to ensure proper disposal.         Uncleaned packagings:         Recommendation: Disposal must be made according to official regulations.         14 Transport information         UN-Number         DOT, IMDG, IATA         UN proper shipping name         DOT         IMDG, IATA         Transport hazard class(es)			
Waste treatment methods         Recommendation Consult state, local or national regulations to ensure proper disposal.         Uncleaned packagings:         Recommendation: Disposal must be made according to official regulations.         14 Transport information         UN-Number DOT, IMDG, IATA       UN3272         UN proper shipping name DOT IMDG, IATA       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester) ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Transport hazard class(es)			
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.         14 Transport information         UN-Number DOT, IMDG, IATA       UN3272         UN proper shipping name DOT IMDG, IATA       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester) ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Transport hazard class(es)			
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.           14 Transport information         UN-Number DOT, IMDG, IATA       UN3272         UN proper shipping name DOT IMDG, IATA       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester) ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Transport hazard class(es)			
14 Transport information         UN-Number         DOT, IMDG, IATA         UN proper shipping name         DOT         IMDG, IATA         Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)         IMDG, IATA         Transport hazard class(es)	Uncleaned packagings:		
UN-Number       UN3272         DOT, IMDG, IATA       UN3272         UN proper shipping name       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)         DOT       ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         IMDG, IATA       ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)			
UN-Number       UN3272         DOT, IMDG, IATA       UN3272         UN proper shipping name       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)         DOT       ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         IMDG, IATA       ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)			
DOT, IMDG, IATA     UN3272       UN proper shipping name     Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)       DOT     Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)       IMDG, IATA     ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)       Transport hazard class(es)     Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)			
DOT       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)         IMDG, IATA       ESTERS, N.O.S. (Cyclopropylboronic acid pinacol ester)         Transport hazard class(es)       Esters, n.o.s. (Cyclopropylboronic acid pinacol ester)			
Transport hazard class(es)			
Transport hazard class(es)			
Class 3 Flammable liquids. Label 3			
Class 3 (F1) Flammable liquids			
	ontd. on page 4		

Product name: Cyclopropylboronic acid pinacol ester		
Label	(Contd. of page 3,	
ÎMDG, IATA	0	
Class Label	3 Flammable liquids.	
Packing group DOT, IMDG, IATA		
Environmental hazards:	Not applicable.	
Special precautions for user         Warning: Flammable liquids           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":	UN3272, Esters, n.o.s. (Cyclopropylboronic acid pinacol ester), 3, III	
15 Regulatory information		
Safety, health and environmental regulations/legislation specific	for the substance or mixture	
GHS label elements The product is classified and labeled in accorda Hazard pictograms	ance with 29 CFR 1910 (OSHA HCS)	
GHS02		
Signal word Warning		
Hazard statements H226 Flammable liquid and vapour.		
Precautionary statements	facas. No smoking	
P210 Keep away from heat/sparks/open flames/hot surf P280 Wear protective gloves/protective clothing/eye pro	aces. No smoking. stection/face protection.	
P240 Ground/bond container and receiving equipment. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P403+P235 Store in a well-ventilated place. Keep cool.		
P403+P235 Store in a well-ventiated place. Keep col. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.		
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.		
product must not be used for commercial purposes or in formulations SARA Section 313 (specific toxic chemical listings) Substance is	for commercial purposes.	
California Proposition 65 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 Substance is not listed.		
Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female 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 and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the		
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.		
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.		
Substance is not listed.	ar usa) Substance is not listed	
Annex XIV of the REACH Regulations (requiring Authorisation for Chemical safety assessment: A Chemical Safety Assessment has	not been carried out.	
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.		
Department issuing SDS: Global Marketing Department		
Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms:		
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)		
RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TIL: Technical Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)		
IMDG: International Maritime Code for Dangerous Goods IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation		
IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society)		
HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada)		
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Hazardous Materials Information System (Canada) LCS0: Lethal concentration, 50 percent LDS0: Lethal concentration, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IAR: International Agency (tor Research on Cancer EPA: Environmental Protection Agency (USA)		
ACGIH: American Conference 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-	
	USA -	