



<pre>11 defilication Product name: 4-Figure production in the substance or mixture and uses advised against. We may be applied the substance or mixture and uses advised against. We may be applied the substance or mixture and uses advised against. We may be applied the substance or mixture and uses advised against. We may be applied the substance or mixture and uses advised against. We may be applied the substance or mixture and uses advised against. We may be applied the substance or mixture and uses advised against. We may be applied the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the substance or mixture in accordance with 20 CFR 1010 (OSHA HCS) We may be applied to the subs</pre>	
Product name. 4-Fluctocycrifiline hydrochloride         Stock number:         Stock number	1 Identification
Stock number: 19864         Core Number: 19864         State Info: 19864         Core Number: 1987         State Info: 2000         State Info:	
Petitis of the supplier of the safety data sheet         Manufacture         Manufacture <td< td=""><td>Stock number: L19864 CAS Number: 39160-31-1</td></td<>	Stock number: L19864 CAS Number: 39160-31-1
Manufacturer/Supplie:         The more Supplie:         The more Supplies Science Committee, Inc.         Start Start         Star         Start	Identified use: SU24 Scientific research and development
Thermore Fasher Scientific Chemicals, Inc. Ward Hint, Mich 235-0090 Tel: 800-847-0000 Tel: 800-840-840-840-840-840-840-840-840-840-	Manufacturer/Supplier: Alfa Aesar
Windscorr         Thermatical programmer: Health, Salely and Environmental Department         Thermatical programmer: Health, Salely and Environmental Department         Thermatical business hours (Monday-Priday, Bam-Tym EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.         2 Hazard(s) Identification         Chastington of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Image: Status of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Status of the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS)         Status of the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS)         Status of otherwise classified Na mornation known.         Label elements         The product is classified and labeled in accordance with 20 CFR 1910 (OSHA HCS)         Weak         Weak         OftSor         Strand word Warning         Maard pictograms         Maard pictograms         Weak product in classified and labeled in accordance with 20 CFR 1910 (OSHA HCS)         Weak product graves mornation         Maard pictograms         Weak product graves mornation         Weak product graves mornation         Maard pictograms         Weak product graves mornation         Weak product graves mornation         Weak product	Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757
During normal business hours (Monday-Finday, Bam-Zpm EST), call (800) 343-0600. After normal business hours, call Carechem 24 at (806) 928-0789.         2 Hazard(s) identification         Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Or Sor         Skin Infit 2       H316 Causes skin initiation.         Figure 2       H316 Causes skin initiation.         Hazards not otherwise classified No information known.       Lable elements         GHS babel elements       The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS).         Hazard functionary for the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS).         Hazard pictograms         GHS07         Signal word Warning         Hazard statements         Hazard statements         GHS07         Signal wor	www.alfa.com Information Department: Health, Safety and Environmental Department
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHSOT Sinn int. Eye Inti: 2A H315 Causes serious eye irritation. Eye Inti: 2A H315 Causes serious eye irritation. Eye Inti: 2A H315 Causes serious eye irritation. Haards not otherwise classified to information known. Label elements GHSOT Haard pictograms GHSOT Signal word Warning Haard pictograms GHSOT Signal word Warning Haard statements GHSOT Signal word Warning Haard statements Haard classified to the substance of the statements Haard	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.
Swin Intl. 2 H315 Causes skin intration. Eyron 24 H319 Causes serious experiment. Stron 352 H325 May cause respiratory initiation. Hazards not otherwise classified for information known. Ladie elements Graduate and the information known. Ladie elements Graduate and pictograms Graduate and pictogra	
Explorit: 24 H319 Causes services epointed in mitation.         STOT SE 3 H335 May cause respiratory initiation.         Abbei elements         GHS label elements         Tors SE 3         GHS label elements         GHS label elements <td< td=""><td>GHS07</td></td<>	GHS07
Label idements GNS label idements Hash cause respiratory irritation. Hash cause solin irritarion. Hash cause solin irritarion. Hash label idements Hash cause respiratory irritation. Hash label idements Hash cause respiratory irritation. Hash label idements Hash cause respiratory irritation. Hash label idements Hash l	Eye Irrit. 2A H319 Causes serious eye irritation.
Signal word Warning Heard statements         High Class Skin Interion.         High Class Skin Interion.         High Class Skin Interion.         High Class Skin Interion.         Precautionary statements         P261       Avoid breathing dustfume/gas/mist/vapours/spray.         P261       Dispose of contents/container in accordance with local/regional/netional/international regulations.         WHMIS classification       Dispose of contents/container in accordance with local/regional/netional/international regulations.         WHMIS classification system       HMS ratings (scale 0-4)         Historia Statements       Health (accus effects) = 1         Historia Construction System       Health (accus of PET and VPVB assessment Prysical Hazard = 1         Other hazards       Results of PET and VPVa dassessment System/state and the splicable.         3 Composition/Information on ingredients       Statements         Statements       Substances         Statements       Results of PET and VPVa assessment         Bescription of first aid measures       Statements <td>Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)</td>	Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard statements*         H315 Causes skin irritation.         H315 Cause skin irritation.         H316 Cause	GHS07
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)         Image: Constraint of the intervention of the interve	Hazard statements         H315 Causes skin irritation.         H319 Causes serious eye irritation.         H335 May cause respiratory irritation.         H335 May cause respiratory irritation.         H335 May cause respiratory irritation.         Precautionary statements         P261       Avoid breathing dust/fume/gas/mist/vapours/spray.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for breathing.         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)         Image: Constraint of the intervention of the interve	$\bigcirc$
Image: Second Physical Házard = 1         Other hazards         Results of PBT and vPvB assessment         PBT: Not applicable.         3 Composition/information on ingredients         Chemical characterization: Substances         CAS# Description:         39160-31-1 4-Fluoropyridine hydrochloride         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 immediate medical advice.         After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.         After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH I Health (acute effects) = 1
PBT: Not applicable.         vPvB: Not applicable.         3 Composition/information on ingredients         Chemical characterization: Substances         CAS# Description:         39160-31-1 4-Fluoropyridine hydrochloride         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 immediate medical advice.         After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.         After swallowing Seek medical treatment.	REACTIVITY[] Physical Hazard = 1 Other hazards
Chemical characterization: Substances CAS# Description: 39160-31-1 4-Fluoropyridine hydrochloride 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 immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	PBT: Not applicable.
CAS# Description: 39160-31-1 4-Fluoropyridine hydrochloride 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 immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
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 immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	CAS# Description:
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.	Description of first aid measures After inhalation
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.	After skin contact Immediately wash with water and soap and rinse thoroughly.
After swallowing Seek medical treatment.	Seek immédiate medical advice.
USA	After swallowing Seek medical treatment.

Product name: 4-Fluoropyridine hydrochloride

## (Contd. of page 1) 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 Carbon monoxide and carbon of Hydrogen fluoride (HF) Nitrogen oxides (NOx) Hydrogen chloride (HCl) Hydrogen cyanide (HCN) 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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate ventilation. 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. 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. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. 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 Personal protective equipment General protective and hygienic measures 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. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable 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: Solid Color: Colorless Not determined Odor: Odor threshold: Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Not determined Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Flash point: Not applicable Not determined Flammability (solid, gaseous) (Contd. on page 3) USA

## Product name: 4-Fluoropyridine hydrochloride

Product name: 4-Fluoropyridine hyd	Irochloride	
		(Contd. of page 2)
Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Product does not present an explosion hazard. Not determined Not applicable. Not applicable. Not determined Not determined. Not applicable. Not applicable. Soluble	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Hydrogen chloride (HCI) Hydrogen cyanide	to be avoided: Decomposition will not occur if used and stored according to specifications. o dangerous reactions known t information available.	
Reproductive foxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	kin irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. - <b>repeated exposure:</b> No effects known. - <b>single exposure:</b> May cause respiratory irritation.	
Do not allow undiluted product or large q Avoid transfer into the environment. <b>Results of PBT and vPvB assessment</b> <b>PBT:</b> Not applicable. <b>vPvB:</b> Not applicable.	her relevant information available. relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. <b>t</b>	
Other adverse effects No further relevand 13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be ma Recommended cleansing agent: Wate	or national regulations to ensure proper disposal.	
<b>14 Transport information</b> Not a hazardous material for transportati	ion.	
UN-Number DOT, IMDG, IATA UN proper shipping name	None	
UN proper shipping name DOT, IMDG, IATA Transport hazard class(es)	None	
DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	(Contd on nage 4)
		(Contd. on page 4) USA

Environmental hazards:         Not applicable.           Special pressuremental instrumental of the substance of Not applicable.         Interpretations for user           Transport in bulk according to Annex II of MARPOL72/78 and the IBC Code Not applicable.         Not dangerous according to the above specifications.           DOT         Not dangerous according to the above specifications.         Not           Description of the above specifications.         No           Status (Local Code)         No		(Contd. of page
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         Not dangerous according to the above specifications.           DOT         Not           Marine Pollutant (DOT):         No           Seguilatory information         Safety, health and environmental regulations/legislation specific for the substance or mixture           GHS babe learnents The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Health	Environmental hazards:	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.         Transport/Additional Information:       Not dangerous according to the above specifications.         Dor Marine Pollutant (DDT):       No         Regulatory information       No         Safety, health and environmental regulations/Regislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms         With the elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Warring Hazard Statements         Very Development         Warring Hazard Statements         P280       Note Breathing dust/fume/gas/mist/vapours/spray.         Warring Hazard Statements       Store locked up.         P304-P305       Fill IF LES Raise callockey with developmental mutules. Remove contact lenses, if present and easy to do. Continue rinsing.         P304-P305		
Transport/Additional information:       Not dangerous according to the above specifications.         DOT       Marine Pollutant (DOT):       No         Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Image: Comparison of the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Image: Comparison of the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms       Image: Comparison of the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard statements       Hazard statements         Ha35 Gauses serious evel initation.       H315 Gauses serious evel initation.         H315 Gauses serious evel initation.       H316 Gauses serious evel initation.         H315 May cause respiratory initation.       H316 HI EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304-P324 IF IN LEVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304-P324 IF IN LEVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Marine Pollutant (DOT):       No         Regulatory information       Satety, health and environmental regulations/legislation specific for the substance or mixture (SHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) (Hazard plotograms)         Image: Comparison of the classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) (Hazard plotograms)         Image: Comparison of the classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) (Hazard plotograms)         Image: Comparison of the classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) (Hazard plotograms)         Image: Comparison of the classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) (Hazard plotograms)         Image: Comparison of the classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) (Hazard Statements)         Image: Comparison of the classified and labeled in accordance with classified plotograms         P261       Avoid breathing dustrium/gas/mist/vapours/spray.         P261       Evoid breathing dustrium/gas/mist/vapours/spray.         P261       Dispose of contents/container in accordance with local/regional/nati		
Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Haard pictograms  Coordinate Control (Control (		
safety, health and environmental regulations/legislation specific for the substance or mixture SHS babe lements. The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Signal word Warning Hazard statements Hazard Hazar	Marine Pollutant (DOT):	No
Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 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 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	Safety, health and environmental regulations/legisla GHS label elements The product is classified and laber Hazard pictograms GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H335 May cause respiratory irritation. H335 May cause respiratory irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/ P280 Wear protective gloves/protective cl P305+P351+P338 IF IN EYES: Rinse cautiously with w P304+P340 IF INHALED: Remove person to fres P405 Store locked up. P501 Dispose of contents/container in acc National regulations This product is not listed in the U.S. Environmental Prot to research and development only. This product must b product must not be used for commercial purposes or in SARA Section 313 (specific toxic chemical listings) California Proposition 65 Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance is not Isformation about limitations and prohibitive regulations Thos product must bi profuct in store in the conditions of restrictions according to Article 6 market and use must be observed.	eled in accordance with 29 CFR 1910 (OSHA HCS) //vapours/spray. /othing/eye protection/face protection. water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. water for several minutes. Control lenses, if present and easy to do. Continue rinsing. water for several minutes. Control lenses, if present and easy to do. Continue rinsing. water for several minutes. Control lenses, if present and easy to do. Continue rinsing. water for several minutes. Control lenses, if present and easy to do. Continue rinsing. water for several minutes. water for several minut
<b>Other information</b> 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 conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. <b>Department issuing SDS:</b> Global Marketing Department	Annex XIV of the REACH Regulations (requiring Au	Ithorisation for use) Substance is not listed.
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 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	<b>Chemical safety assessment:</b> A Chemical Safety Ass	sessment has not been carried out.
Department issuing SDS: Global Marketing Department	Employers should use this information only as a supple information to ensure proper use and protect the health	h and safety of employees. This information is furnished without warranty, and any use of the product not in
RID: Règlement international concérnant 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: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association ATA: International Air Transport Association CAS: Chemical Abstracts Service division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHINS: Workplace Hazardous Materials Information System (Canada) LCS0: Lethal concentration, 50 percent UDS0: Lethal dose, 50 percent WPGB, yety Persistent and very Bioaccumulative WPGB, yety Persistent and very Bioaccumulative	Department issuing SDS: Global Marketing Departme	ent
DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UD50: Lethal dose, 50 percent VPB, very Persistent and very Bioaccumulative VPB, very Persistent and very Bioaccumulative	RID: Règlement international concernant le transport des marchandises or IATA-DGR: Dangerous Goods Regulations by the "International Air Trans ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organi IMDG: International Maritime Code for Danaerous Goods	dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) sport Association" (IATA) nization" (ICAO)
LUOU. Leural dose, ou percent VPVB: very Persistent and very Bioaccumulative ACCUL Nergenerge Concernmente Leuretrie L. Leureniete (USA)	DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Soc HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCSO: Lethal concentration, 50 percent LCSO: Lethal concentration, 50 percent	ciety)
ACGITT, Anterican Conterence of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) ITP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Fouriemental Detection Agency (USA)	VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (US OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)	3A)