

XIAME	TER(R) PMX-20	)0 S		LUID 1 CS
Version 1.0	Revision Date: 09/19/2014	M	SDS Number: /0199-00001	Date of last issue: - Date of first issue: 09/19/2014
SECTION	1. PRODUCT AND CO			TION
OLOHION				
Produ	ict name	:	XIAMETER(R)	PMX-200 SILICONE FLUID 1 CS
Product code		:	000000000004	088389
Chemical nature		:	Silicone	
Manu	facturer or supplier's	deta	iils	
Comp	any name of supplier	:	Dow Corning C	Corporation
Addre	SS	:	South Saginaw Midland Michig	
Telep	hone	:	(989) 496-6000	)
Emer	gency telephone	:	24 Hour Emerg CHEMTREC : (	gency Telephone : (989) 496-5900 800) 424-9300
Dispo	sal considerations	:	(989) 496-6315	5
Reco	mmended use of the	cherr	nical and restric	tions on use
Recommended use		:	Intermediate Solvent Cosmetics Cleaning/washin	ng agents and additives

#### **SECTION 2. HAZARDS IDENTIFICATION**

WARNING	
Appearance	liquid
Color	colorless
Odor	none
Hazard Summary	Flammable liquid and vapor. Static-accumulating flammable liquid.
OSHA Regulatory status	: This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.
Potential Health Effects	
Inhalation	: No significant effects expected from a single short-term expo- sure.
Skin	: No significant irritation expected from a single short-term exposure.



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Eyes		: No significant irr	itation expected from a single exposure.		
Ingestion		: No significant ef exposure.	: No significant effects expected from a single short-term exposure.		
Aggravated Medical Condi- tion		: None known.			
Carci	nogenicity:				
IARC			s product present at levels greater than or entified as probable, possible or confirmed by IARC.		
ACGIH			s product present at levels greater than or entified as a carcinogen or potential carcino-		
OSHA		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.			
NTP			s product present at levels greater than or entified as a known or anticipated carcinogen		

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Substance

Chemical nature	:	Silicone

#### Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Octamethyltrisiloxane	107-51-7	>= 90 - <= 100

#### **SECTION 4. FIRST AID MEASURES**

If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	: Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.



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	Protecti	on of first-aiders	:	No special precau	tions are necessary for first aid responders.	
	Notes to	o physician	:	Treat symptomatically and supportively.		
SEC	TION 5.	FIRE-FIGHTING MEA	SU	RES		
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Dry chemical Carbon dioxide (C		
	Unsuita media	ble extinguishing	g : High volume water jet		r jet	
Specific hazards during fire fighting		:	fire. Flash back possib Vapors may form Fire burns more vi	water stream as it may scatter and spread le over considerable distance. explosive mixtures with air. gorously than would be expected. ustion products may be a hazard to health.		
Hazardous combustion prod- ucts		:	Carbon oxides Silicon oxides Formaldehyde			
	Specific ods	extinguishing meth-	:	cumstances and the Use water spray to	measures that are appropriate to local cir- ne surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
	Special for fire-f	protective equipment ighters	:	Wear self-containe essary. Use personal prote	ed breathing apparatus for firefighting if nec- ective equipment.	

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Remove all sources of ignition. Follow safe handling advice and personal protective equip- ment recommendations.
Environmental precautions	:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.



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	ods and materials for nment and cleaning up	Suppress (knock jet. For large spills, p ment to keep ma pumped, store re Clean up remain bent. Dispose of satur priately, since sp Local or national posal of this mat employed in the mine which regu Sections 13 and	ols should be used. rt absorbent material. a down) gases/vapors/mists with a water spray provide diking or other appropriate contain- aterial from spreading. If diked material can be ecovered material in appropriate container. ing materials from spill with suitable absor- ated absorbent or cleaning materials appro- pontaneous heating may occur. regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational requirements.

#### SECTION 7. HANDLING AND STORAGE

Technical measures :	Ensure all equipment is electrically grounded before beginning transfer operations. This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical igni- tion source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations. Restrict flow velocity in order to reduce the accumulation of static electricity.
Local/Total ventilation :	Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.
Advice on safe handling :	Handle in accordance with good industrial hygiene and safety practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage :	Keep in properly labeled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.
Materials to avoid :	Do not store with the following product types: Strong oxidizing agents Organic peroxides



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		•	ds ls ostances and mixtures I mixtures which in contact with water emit

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Octamethyltrisiloxane	107-51-7	TWA	200 ppm	DCC OEL
Engineering measures	10). Minimize worl Use only in ar ventilation.	kplace exposure	us compounds (see s concentrations. with explosion proof	
Personal protective equipment	t			
Respiratory protection	: General and I maintain vapo concentration unknown, app Follow OSHA use NIOSH/M by air purifyin hazardous ch supplied resp release, expo	or exposures belows are above recompriate respirator regulator respirator regulators agains approved respirators agains and a sure levels are unitariant or an approved sure levels are unitariant or an approved sure levels are unitarianter an approved sure levels are unitarianter an approved sure levels are unitarianter and sure sure sure sure sure sure sure sure	ntilation is recommen- ow recommended limits or a cory protection should ations (29 CFR 1910. respirators. Protection ainst exposure to any . Use a positive press any potential for unco inknown, or any other ng respirators may no	its. Where re be worn. 134) and provided sure air ntrolled
Hand protection Material	: Antistatic glov Flame retarda			
Remarks	on the concer		ds against chemicals o place of work. Was of workday.	
Eye protection	: Wear the follo Safety glasse		rotective equipment:	

#### Ingredients with workplace control parameters



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Skin and body protection		<ul> <li>Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.</li> <li>Wear the following personal protective equipment: Flame retardant antistatic protective clothing.</li> <li>Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).</li> </ul>		
Hygie	ne measures	located close to t When using do n Wash contaminat These precaution elevated tempera quire added prec For further inform ganic oils in cons the guidance doc materials in cons developed by the	lushing systems and safety showers are he working place. ot eat, drink or smoke. ted clothing before re-use. Is are for room temperature handling. Use at atture or aerosol/spray applications may re- autions. hation regarding the use of silicones / or- umer aerosol applications, please refer to ument regarding the use of these type of umer aerosol applications that has been silicone industry (www.SEHSC.com) or Corning customer service group.	

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: colorless
Odor	: none
Odor Threshold	: No data available
рН	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 152 °C
Flash point	: 30 °C Method: Tag closed cup
Flash point Evaporation rate	
	Method: Tag closed cup
Evaporation rate	Method: Tag closed cup : No data available
Evaporation rate Flammability (solid, gas)	Method: Tag closed cup : No data available : Not applicable
Evaporation rate Flammability (solid, gas) Upper explosion limit	Method: Tag closed cup No data available Not applicable No data available



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	Relativ	e density	:	0.816	
Solubility(ies) Water solubility		:	No data available		
	Partitio octano	n coefficient: n- I/water	:	No data available	
	Autoignition temperature		:	No data available	
	Thermal decomposition		:	No data available	
	Viscosi Visc	ity osity, kinematic	:	1 cSt	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.		
Chemical stability	: Stable under normal conditions.		
Possibility of hazardous reac- tions	<ul> <li>Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. When heated to temperatures above 150 °C (300 °F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required. See OSHA formaldehyde standard, 29 CFR 1910.1048 Hazardous decomposition products will be formed at elevated temperatures.</li> </ul>		
Conditions to avoid	: Handling operations that can promote accumulation of static charges. Heat, flames and sparks.		
Incompatible materials	: Oxidizing agents		
Hazardous decomposition products Thermal decomposition : Formaldehyde			

#### SECTION 11. TOXICOLOGICAL INFORMATION



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Informa exposu	ation on likely routes of Ire	: Inhalation Skin contact Ingestion Eye contact	
	toxicity		
	ssified based on availal	Die Information.	
Produc Acute o	<u>cr:</u> oral toxicity	: LD50 (Rat): > 2, Assessment: Th icity Remarks: Based	ne substance or mixture has no acute oral to
Acute i	nhalation toxicity	: LC50 (Rat): > 23 Exposure time: Test atmosphere Assessment: The tion toxicity Remarks: Based	4 h e: vapor ne substance or mixture has no acute inhala-
Ingred	ients:		
	ethyltrisiloxane: oral toxicity	: LD50 (Rat): > 2, Assessment: Th icity Remarks: Based	he substance or mixture has no acute oral to
Acute i	nhalation toxicity	: LC50 (Rat): > 23 Exposure time: Test atmospher Assessment: Th tion toxicity Remarks: Based	4 h e: vapor ne substance or mixture has no acute inhala
Acute o	dermal toxicity	: LD50 (Rat): > 2, Assessment: Th toxicity Remarks: Based	ne substance or mixture has no acute derma

Not classified based on available information.

#### Product:

Species: Rabbit Result: No skin irritation Remarks: Based on test data

#### Ingredients:

Octamethyltrisiloxane: Species: Rabbit



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Result: No skin irritation Remarks: Based on test data

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Ingredients:

Octamethyltrisiloxane: Result: No eye irritation Remarks: Based on data from similar materials

#### Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

#### Product:

Assessment: Does not cause skin sensitization.

Test Type: Human repeat insult patch test (HRIPT) Species: Humans Remarks: No known sensitising effect. Based on test data

#### Ingredients:

#### Octamethyltrisiloxane:

Assessment: Does not cause skin sensitization.

Test Type: Human repeat insult patch test (HRIPT) Species: Humans Remarks: No known sensitising effect. Based on test data

#### Germ cell mutagenicity

Not classified based on available information.

#### Product:

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on test data
	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on test data
Ingredients: Octamethyltrisiloxane: Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Result: negative

Remarks: Based on test data

: Test Type: Bacterial reverse mutation assay (AMES)



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Result: negative Remarks: Based on test data

#### Carcinogenicity

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### Product:

Effects on fertility :	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat, male and female Application Route: inhalation (vapor) Symptoms: No effects on fertility. Remarks: Based on test data Test Type: Uterotrophic assay Species: Rat, female Application Route: inhalation (vapor) Result: negative Remarks: Based on test data
Effects on fetal development :	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat, male and female Application Route: inhalation (vapor) Symptoms: No effects on fetal development. Remarks: Based on test data
Reproductive toxicity - As- : sessment	No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
Ingredients:	
Octamethyltrisiloxane: Effects on fertility :	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat, male and female Application Route: inhalation (vapor) Symptoms: No effects on fertility. Remarks: Based on test data
	Test Type: Uterotrophic assay Species: Rat, female Application Route: inhalation (vapor) Result: negative Remarks: Based on test data
Effects on fetal development :	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat, male and female Application Route: inhalation (vapor) Symptoms: No effects on fetal development.



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Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Remarks: Based on test data

#### STOT-single exposure

Not classified based on available information.

#### STOT-repeated exposure

Not classified based on available information.

#### Product:

Routes of exposure: inhalation (vapor) Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

#### Ingredients:

#### Octamethyltrisiloxane:

Routes of exposure: Ingestion Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Routes of exposure: inhalation (vapor) Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

#### Repeated dose toxicity

#### Product:

Species: Rat Application Route: inhalation (vapor) Remarks: Based on test data

#### Ingredients:

Octamethyltrisiloxane:

Species: Rat Application Route: Ingestion Remarks: Based on test data

Species: Rat Application Route: inhalation (vapor) Remarks: Based on test data

#### **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

#### Ingredients:

Octamethyltrisiloxane:

Remarks: This material contains octamethyltrisiloxane (L3). Repeated inhalation exposure in rats



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to L3 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

#### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
<u>Ingredients:</u> Octamethyltrisiloxane:	
Toxicity to fish	<ul> <li>LC50 (Oncorhynchus mykiss (rainbow trout)): &gt; 0.019 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on test data No toxicity at the limit of solubility.</li> </ul>
Toxicity to daphnia and other aquatic invertebrates	<ul> <li>EC50 (Daphnia magna (Water flea)): &gt; 0.020 mg/l</li> <li>Exposure time: 48 h</li> <li>Method: OECD Test Guideline 202</li> <li>Remarks: No toxicity at the limit of solubility.</li> </ul>
Toxicity to algae	<ul> <li>EC50 (Pseudokirchneriella subcapitata (green algae)): &gt; 0.0094 mg/l</li> <li>Exposure time: 72 h</li> <li>Method: OECD Test Guideline 201</li> <li>Remarks: No toxicity at the limit of solubility.</li> </ul>
Toxicity to fish (Chronic toxic- ity)	<ul> <li>NOEC (Oncorhynchus mykiss (rainbow trout)): &gt; 0.027 mg/l Method: OECD Test Guideline 210 Remarks: Based on test data No toxicity at the limit of solubility.</li> </ul>
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<ul> <li>NOEC (Daphnia sp.): &gt; 0.15 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility.</li> </ul>
Ecotoxicology Assessment Acute aquatic toxicity	: This product has no known ecotoxicological effects.
Chronic aquatic toxicity	: This product has no known ecotoxicological effects.
Persistence and degradability	y
Ingredients: Octamethyltrisiloxane:	
Biodegradability	: Result: Not readily biodegradable. Biodegradation: 0 % Method: OECD Test Guideline 310
Stability in water	: Degradation half life: 329 h pH: 7



#### XIAMETER(R) PMX-200 SILICONE FLUID 1 CS Version Date of last issue: -**Revision Date:** MSDS Number: 1.0 09/19/2014 570199-00001 Date of first issue: 09/19/2014 Method: OECD Test Guideline 111 Remarks: Based on test data **Bioaccumulative potential** Ingredients: Octamethyltrisiloxane: **Bioaccumulation** Species: Pimephales promelas (fathead minnow) 5 Bioconcentration factor (BCF): >= 500 Method: OECD Test Guideline 305 Remarks: Biomagnification factor <1 : log Pow: >= 4 Partition coefficient: n-Remarks: Based on test data octanol/water Mobility in soil No data available Other adverse effects No data available **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Disposal methods

Resource Conservation and Recovery Act (RCRA)	:	When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.
Waste Code	:	D001: Ignitability
Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Dispose of as unused product. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulation

UNRTDG	
UN number	: UN 1993
Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (Octamethyltrisiloxane)
Class	: 3
Packing group	: 111
Labels	: 3
<b>IATA-DGR</b> UN/ID No.	: UN 1993



#### Version **Revision Date:** MSDS Number: Date of last issue: -1.0 09/19/2014 570199-00001 Date of first issue: 09/19/2014 Proper shipping name : Flammable liquid, n.o.s. (Octamethyltrisiloxane) Class : 3 Packing group : 111 Labels Flammable Liquids ÷ Packing instruction (cargo 2 366 aircraft) Packing instruction (passen-: 355 ger aircraft) IMDG-Code **UN** number : UN 1993 Proper shipping name : FLAMMABLE LIQUID, N.O.S. (Octamethyltrisiloxane) : 3 Class : 111 Packing group Labels 3 1 EmS Code : F-E, <u>S-E</u> Marine pollutant : no

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

Not applicable for product as supplied.

#### **Domestic regulation**

<b>49 CFR</b> UN/ID/NA number Proper shipping name	<ul> <li>: UN 1993</li> <li>: FLAMMABLE LIQUIDS, N.O.S. (Octamethyltrisiloxane)</li> </ul>
Class	: 3
Packing group	: 111
Labels	: FLAMMABLE LIQUID
ERG Code	: 128
Marine pollutant	: no

#### SECTION 15. REGULATORY INFORMATION

OSHA Hazards	: Flammable Liquid, Static-accumulating flammabl	e liquid.
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#### EPCRA - Emergency Planning and Community Right-to-Know

#### **CERCLA Reportable Quantity**

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

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards	: Fire Hazard
SARA 302	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.



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SA	RA 313	:	known CAS numb	not contain any chemical or ers that exceed the thresho tablished by SARA Title III,	ld (De Minimis)
US	State Regulations				
Pei	nnsylvania Right To Knov				
	Octamethyltri	isilo	xane	107-51-7	90 - 100 %
Ne	w Jersey Right To Know Octamethyltri	isilo	xane	107-51-7	90 - 100 %
Cal	lifornia Prop 65			not contain any chemicals to cause cancer, birth, or a cts.	
	e <b>ingredients of this prod</b> loC		are reported in the All ingredients liste	-	
RE	ACH	:	All ingredients (pre	e-)registered or exempt.	
TS	CA	:		ances in this material are in this material are in ting on the TSCA Inventory	
AIC	S	:	All ingredients liste	ed or exempt.	
IEC	SC	:	All ingredients liste	ed or exempt.	
EN	CS/ISHL	:	All components ar inventory listing.	e listed on ENCS/ISHL or e	exempted from
KE	CI	:	All ingredients liste	ed, exempt or notified.	
PIC	CCS	:	All ingredients liste	ed or exempt.	
DS	L	:	1999 and NSNR a	ances in this product comp ind are on or exempt from li ic Substances List (DSL).	

#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)



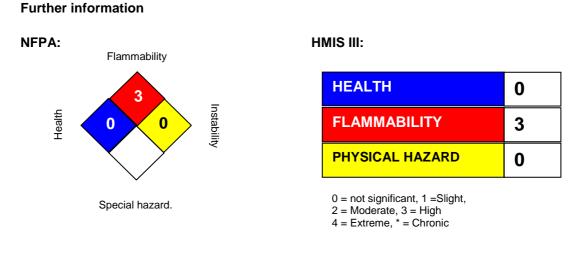
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#### **SECTION 16. OTHER INFORMATION**



DCC OEL	: Dow Corning Guide
DCC OEL / TWA	: Time weighted average
Sources of key data used to	: Internal technical data, da

lata from raw material SDSs, OECD compile the Material Safety eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8

Data Sheet