SAFETY DATA SHEET

1. Identification

Product identifier: BLUESIL RES 6482X

Recommended use and restriction on use

Recommended use: Paint.
Restrictions on use: None known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name:	Elkem Silicones France SAS
Address:	1-55 rue des Frères PERRET F-69 192 SAINT FONS Cedex
Telephone:	+33 (0) 4 72 73 74 75
Fax:	+33 (0) 4 72 73 75 99
Contact Person:	
E-mail:	fds.sil@elkem.com

Supplier

Company Name:	Elkem Silicones USA Corp.
Address:	Two Tower Blvd, Suite 1601 08816-1100 East Brunswick, NJ
Telephone:	+1 (732) 227-2060
Fax:	+1 (732) 249-7000

Emergency telephone number: +1 (800) 424-9300 CHEMTREC

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids	Category 3

Health Hazards

Acute toxicity (Dermal)	Category 4
Acute toxicity (Inhalation - vapor)	Category 4
Skin irritation	Category 2
Serious eye irritation	Category 2A
Carcinogenicity	Category 2
Toxic to reproduction	Category 2
Specific Target Organ Toxicity - Single Exposure	Category 3
Specific Target Organ Toxicity - Repeated Exposure	Category 2
Aspiration Hazard	Category 1

Environmental Hazards

Acute hazards to the aquatic environment	Category 2

Chronic hazards to the aquatic environment	Category 3

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement:
Flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Harmful in contact with skin or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapors. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.

Storage: Store in tightly closed original container in a dry, cool and well-ventilated place.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: No data available.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Xylene	1330-20-7	30 - <40%
Toluene	108-88-3	7 - <13%
Ethylbenzene	100-41-4	5 - <10%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - <1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: Solution of polyorganosiloxane resin.

4. First-aid measures

General information: For further information refer to section 8 "Exposure-controls/personal protection".

Ingestion: Do not induce vomiting. Rinse mouth thoroughly. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention immediately.

Inhalation: Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

Skin Contact: Remove contaminated clothing and shoes. Wash with soap and water. Get medical attention if symptoms occur after washing.

Eye contact: In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Most important symptoms/effects, acute and delayed

Symptoms: None known.

Hazards: Any material aspirated during vomiting may cause severe lung injury.

Indication of immediate medical attention and special treatment needed

Treatment: Treat appropriately, avoid vomiting and normal rinse of stomach.

5. Fire-fighting measures

General Fire Hazards: Vapors may travel considerable distance to a source of ignition and flash back. Containers may explode (due to the build-up of pressure) when exposed to extreme heat.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Flammable. Hazardous Decomposition Products : formaldehyde, oxides of carbon and silica.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	Water spray should be used to cool containers.
Special protective equipment for fire-fighters:	Firefighters should wear standard protective equipment and a positive pressure self-contained breathing apparatus (SCBA).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Do not breathe vapor. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.
Methods and material for containment and cleaning up:	Use non-sparking tools. Absorb with sand or other inert absorbent and place into containers.
Notification Procedures:	Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.
Environmental Precautions:	Collect spillage. Do not discharge into drains, water courses or onto the ground. Spills may be reportable to the National Response Center (800-424-8802). and to state and/or local agencies.

7. Handling and storage

Precautions for safe handling:	Use explosion-proof electrical/ventilating/lighting/equipment. Ground container and transfer equipment to eliminate static electric sparks. Avoid forming spray/aerosol mists. See Section 8 of the SDS for Personal Protective Equipment.
Conditions for safe storage, including any incompatibilities:	Store in original tightly closed container. Store in a cool, dry place with adequate ventilation. Avoid heat, sparks, open flames and other ignition sources. Nitrogen blanketing of containers is recommended.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values		Source
Xylene	TWA	100 ppm		US. ACGIH Threshold Limit Values (01 2010)
	STEL	150 ppm		US. ACGIH Threshold Limit Values (01 2010)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	150 ppm	655 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Toluene	TWA	20 ppm		US. ACGIH Threshold Limit Values (01 2010)
	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)

	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
Ethylbenzene	STEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	125 ppm	545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	20 ppm		US. ACGIH Threshold Limit Values (12 2010)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Xylene (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEL (01 2010)
Toluene (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL (01 2010)
Toluene (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL (01 2010)
Toluene (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (01 2010)
Ethylbenzene (Mandelic acid: Sampling time: End of shift at end of work week.)	1,500 mg/g (Creatinine in urine)	FR IBE (1997)

Appropriate Engineering Controls Use explosion-proof ventilation equipment to stay below exposure limits.

Individual protection measures, such as personal protective equipment

General information: Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist.

Eye/face protection: Wear approved chemical safety glasses with side shields or goggles.

Skin Protection

Hand Protection: Protective gloves are recommended.

Other: Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory Protection: If ventilation is insufficient, suitable respiratory protection must be provided. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to fumes at levels exceeding the exposure limits.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state:	Liquid
Form:	Slightly viscous
Color:	Colorless to pale yellow
Odor:	Quite strong.
Odor threshold:	No data available.
pH:	Not applicable
Freezing point:	No data available.
Boiling Point:	279 - 288 °F (137 - 142 °C)
Flash Point:	82 °F (28 °C) (Closed cup according to method Afnor T 60103.)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability limit - upper (%):	7 %(V) Xylene
Flammability limit - lower (%):	1 %(V) Xylene
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	Approximate 1.06 kg/dm3 (68 °F (20 °C))
Solubility(ies)	
Solubility in water:	Very slightly soluble.
Solubility (other):	Ethanol: Very slightly soluble. Chlorinated solvents: Miscible (in all proportions). Aromatic hydrocarbons: Miscible (in all proportions). Acetone: Miscible (in all proportions). Aliphatic hydrocarbons: Very slightly soluble.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	> 932 °F (500 °C) Xylene
Decomposition temperature:	No data available.
Viscosity:	Approximate 15 mm2/s (77 °F (25 °C))
Other information	
Oxidizing properties:	Not considered as oxidizing. Expert statement.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Stable
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides, other toxic gases or vapors and amorphous silica.

11. Toxicological information

Information on likely routes of exposure

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 4,311.12 mg/kg

Dermal

Product: ATEmix: 1,578.58 mg/kg

Inhalation

Product: ATEmix: 11 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Toluene	NOAEL (Rat, Ingestion): 625 mg/kg NOAEL (Rat, Inhalation): 2,261 mg/kg

Specified substance(s):

Ethylbenzene	NOAEL (Rat(Female, Male)): 75 mg/kg

Specified substance(s):

Octamethylcyclotetrasiloxane	NOAEL (Rat, Inhalation): 1.820 mg/l NOAEL (Rabbit, Dermal): 960 mg/kg

Skin Corrosion/Irritation

Product: Causes skin irritation.

Serious Eye Damage/Eye Irritation

Product: Causes serious eye irritation.

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Xylene	Not a skin sensitizer.
Specified substance(s):	
Toluene	(Guinea Pig)Not a skin sensitizer.
Specified substance(s):	
Octamethylcyclotetrasiloxane	(Guinea Pig)Not a skin sensitizer.

Carcinogenicity

Product:	No data available.
Specified substance(s):	
Toluene	Not classified
Specified substance(s):	
Octamethylcyclotetrasiloxane	No effects expected.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Ethylbenzene	Overall evaluation: Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product:	No data available.
Specified substance(s):	
Xylene	Bacteria: No mutagenic components identified.
Specified substance(s):	
Toluene	Bacteria: No mutagenic components identified.
Specified substance(s):	
Octamethylcyclotetrasiloxane	Bacteria: No mutagenic components identified. Chromosomal aberration: No mutagenic components identified. In vitro gene mutations test on mammalian cells:: No mutagenic components identified.

In vivo

Product:	No data available.
Specified substance(s):	
Xylene	No effects expected.
Specified substance(s):	
Toluene	(Rat)No mutagenic components identified.
Specified substance(s):	
Octamethylcyclotetrasiloxane	(Rat)No effects expected.

Reproductive toxicity

Product:	No data available.
Specified substance(s):	
Toluene	Suspected of damaging the unborn child.
Specified substance(s):	

Octamethylcyclotetrasiloxane	Suspected of damaging fertility.

Specific Target Organ Toxicity - Single Exposure

Product: May cause respiratory irritation.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: May be fatal if swallowed and enters airways.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Xylene	LC 50 (Fish, 96 h): 2.6 mg/l
Toluene	LC 50 (Fish, 96 h): 5.5 mg/l
Ethylbenzene	LC 50 (Oncorhynchus mykiss, 96 h): 4.2 mg/l Mortality
Octamethylcyclotetrasiloxane	LC 50 (Oncorhynchus mykiss, 96 h): >= 0.022 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Xylene	EC 50 (Water flea (Daphnia magna), 48 h): 3.82 mg/l
Toluene	EC 50 (Water flea (Daphnia magna), 48 h): 3.78 mg/l
Ethylbenzene	EC 50 (Water flea (Daphnia magna), 48 h): 1.8 - 2.4 mg/l
Octamethylcyclotetrasiloxane	EC 50 (Water flea (Daphnia magna), 48 h): > 0.015 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Xylene	NOEC (Oncorhynchus mykiss): > 1.3 mg/l
Toluene	NOEC (Atlantic Salmon, 40 d): 1.39 mg/l
Octamethylcyclotetrasiloxane	NOEC (Oncorhynchus mykiss, 93 d): >= 0.0044 mg/l

Aquatic Invertebrates

Product:	No data available.

Specified substance(s):

Xylene	NOEC (Water flea (Daphnia magna)): 1.57 mg/l
Toluene	NOEC (Water flea (Daphnia magna), 7 d): 0.74 mg/l
Octamethylcyclotetrasiloxane	NOEC (Water flea (Daphnia magna), 21 d): 0.015 mg/l

Toxicity to Aquatic Plants

Product:	No data available.

Specified substance(s):

Xylene	IC50 (Alga, 72 h): 2.2 mg/l
Toluene	EC 50 (Alga, 3 h): 134 mg/l
Ethylbenzene	LC 50 (Alga, 72 h): 4.6 mg/l
Octamethylcyclotetrasiloxane	EC 50 (Green algae (Selenastrum capricornutum), 96 h): > 0.022 mg/l

Persistence and Degradability

Biodegradation

Product:	No data available.

Specified substance(s):

Xylene	87.8 % (28 d) The product is easily biodegradable.
Toluene	69 % The product is easily biodegradable.
Ethylbenzene	Expected to be readily biodegradable.
Octamethylcyclotetrasiloxane	3.7 % (29 d) The product is not considered to be readily biodegradable.

BOD/COD Ratio

Product:	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.

Specified substance(s):

Xylene	Fish, Bioconcentration Factor (BCF): < 25.9 Potential to bioaccumulate is low.
Toluene	Bioconcentration Factor (BCF): 90 Potential to bioaccumulate is low.
Ethylbenzene	Fish, Bioconcentration Factor (BCF): 2 - 15 Potential to bioaccumulate is low.
Octamethylcyclotetrasiloxane	Fathead Minnow, Bioconcentration Factor (BCF): 12,400

Partition Coefficient n-octanol / water (log Kow)

Product:	No data available.

Specified substance(s):

Xylene	Log Kow: 3.12 - 3.20
Toluene	Log Kow: 2.73
Ethylbenzene	Log Kow: 3.15 Log Kow: 3.13 - 3.14 No Other, Supporting study

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Xylene	No data available.
Toluene	No data available.
Ethylbenzene	No data available.
Octamethylcyclotetrasiloxane	No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Contaminated packages should be as empty as possible. Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability.

RCRA Information

Waste code: EPA RCRA HAZARDOUS WASTE CODE: D001

14. Transport information

DOT

UN Number:	UN 1307
UN Proper Shipping Name:	XYLENES MIXTURE
Transport Hazard Class(es)	
Class:	3
Label(s):	3
Packing Group:	III
Marine Pollutant:	Not a Marine Pollutant
Special precautions for user:	–

IMDG

UN Number:	UN 1307
UN Proper Shipping Name:	XYLENES MIXTURE
Transport Hazard Class(es)	
Class:	3
Label(s):	3
EmS No.:	F-E, S-D
Packing Group:	III
Marine Pollutant:	Not a Marine Pollutant
Limited quantity	
Excepted quantity	
Special precautions for user:	–

IATA

UN Number:	UN 1307
Proper Shipping Name:	XYLENES MIXTURE
Transport Hazard Class(es):	
Class:	3
Label(s):	3
Marine Pollutant:	No other information noted.
Packing Group:	III
Limited quantity	
Excepted quantity	
Special precautions for user:	–
Other information	
Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

Environmental hazards: Not a Marine Pollutant

Special precautions for user: No special precautions.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Xylene	lbs. 100
Toluene	lbs. 1000
Ethylbenzene	lbs. 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

X	Acute (Immediate)	X	Chronic (Delayed)	X	Fire		Reactive		Pressure Generating

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Xylene	lbs. 100
Toluene	lbs. 1000
Ethylbenzene	lbs. 1000

SARA 313 (TRI Reporting)

Chemical Identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Xylene		
Toluene		
Ethylbenzene		

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity	Reportable quantity
Xylene	Reportable quantity: lbs.
Ethylbenzene	Reportable quantity: lbs.
Toluene	Reportable quantity: lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

WARNING: This product can expose you to chemicals including

Ethylbenzene, which is known to the State of California to cause cancer.

Toluene, which is known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity
Xylene
Toluene
Ethylbenzene

US. Massachusetts RTK - Substance List

Chemical Identity
Toluene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Xylene
Toluene
Ethylbenzene

US. Rhode Island RTK

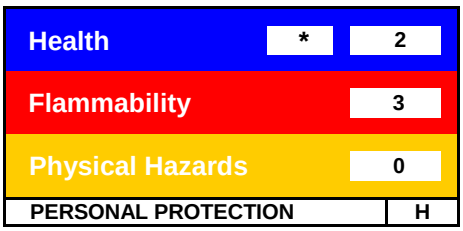
No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

Canada DSL Inventory List:	On or in compliance with the inventory.
EINECS, ELINCS or NLP:	On or in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory.

16.Other information, including date of preparation or last revision

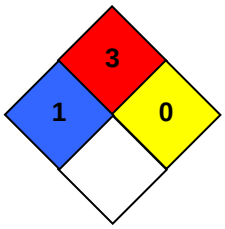
HMIS Hazard ID

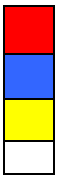


H - Goggles, Gloves, Apron & Vapor Respirator

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID





Flammability
Health
Reactivity
Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date:	10/02/2018
Revision Date:	No data available.
Version #:	3.0
Further Information:	No data available.

Disclaimer:

The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.