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SAFETY DATA SHEET

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Section 1. Identification		
GHS product identifier	•	98672-02 EXPC8502 NATURAL 0000
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	VC10009908
Product type	:	solid
Relevant identified uses of the subs Product use	tance :	e or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	POLYONE CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. All ingredients are bound in a PVC polymer matrix and potential for hazardous exposure as shipped is minimal. PVC resin is manufactured from Vinyl Chloride Monomer (VCM). PVC resin manufacturers take special efforts to strip residual VCM from their resins. Residual VCM in the resin is typically below 8.5 ppm. However, VCM is a known carcinogen. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions.After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.

GHS label elements



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Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

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Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	VC10009908

CAS number/other identifiers

Ingredient name	%	CAS number
Di(2-ethylhexyl)phthalate	10 - 30	117-81-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.



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Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated
		clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at
		rest in a position comfortable for breathing. If material has been
		swallowed and the exposed person is conscious, give small quantities
		of water to drink. Do not induce vomiting unless directed to do so by
		medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact Inhalation Skin contact Ingestion	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.		
Over-exposure signs/symptoms				
Eye contact	:	No specific data.		
Inhalation	:	No specific data.		
Skin contact	:	No specific data.		
Ingestion	:	No specific data.		
Indication of immediate medical attention and special treatment needed, if necessary				

Notes to physician Specific treatments	 Treat symptomatically. Contact poison treatment speciali immediately if large quantities have been ingested or inhatic No specific treatment. 	
Protection of first-aiders	: No action shall be taken involving any personal risk or w suitable training.	ithout

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 .
Unsuitable extinguishing media	:	None known.



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Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	May emit Hydrogen Chloride (HCl). Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containme	ent a	nd cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



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Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

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Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Di(2-ethylhexyl)phthalate	OSHA PEL 1989 (1989-03-01)
	PEL: Permissible Exposure Level 5 mg/m3
	Maximum permissible limit of exposure in the short term (short-
	term exposure limit). 10 mg/m3
	OSHA PEL (1993-06-30)
	PEL: Permissible Exposure Level 5 mg/m3
	NIOSH REL (1994-06-01)
	Time Weighted Average (TWA) 5 mg/m3
	Maximum permissible limit of exposure in the short term (short-
	term exposure limit). 10 mg/m3
	ACGIH TLV (1999-03-01)
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:
	Permissible Exposure Level 5 mg/m3

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.



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Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures Eye/face protection	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state	solid [Pellets.]
Color	: NO PIGMENT
Odor	: Not available.
Odor threshold	: Not available.



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		Not available.
pH	:	1.000 @.001000
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-	:	Not available.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Avoid contact with acetal homopolymers and acetyl homopolymers during processing.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects



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Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Di(2-ethylhexyl)phthalate				
	LD50 Oral	Rat	30,000 mg/kg	-
	LD50 Dermal	Rabbit	25,000 mg/kg	-
Conclusion/Summany	. Mivt	ura Not fully tastad		

Conclusion/Summary

: Mixture.Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Di(2-ethylhexyl)phthalate	Eyes - Mild irritant	Rabbit		24 hrs	-
	Skin - Mild irritant	Rabbit		24 hrs	-
	Eyes - Mild irritant	Rabbit			-
Conclusion/Summary		1			
Skin	: M	ixture.Not fully	v tested.		
Eyes		ixture.Not fully			
Respiratory		ixture.Not fully			
Sensitization					
Conclusion/Summary Skin Respiratory		lixture.Not fully lixture.Not fully			
<u>Mutagenicity</u>					
Conclusion/Summary	: M	ixture.Not fully	v tested.		
Carcinogenicity					
Conclusion/Summary <u>Classification</u>	: M	ixture.Not fully	tested.		
Product/ingredient	OSHA	IARC	NTP		
name					
Di(2-ethylhexyl)phthalate		2B	Reasona	bly anticipated to b	be a human carcinogen.
<u>Reproductive toxicity</u>					
Conclusion/Summary	: M	ixture.Not fully	tested.		

Teratogenicity

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Conclusion/Summary	:	Mixture.Not fully tested.			
Specific target organ toxicity (single exposure) Not available.					
<u>Specific target organ toxicity (repea</u> Not available.	ated	exposure)			
Aspiration hazard Not available.					
Information on likely routes of exposure	:	Not available.			
Potential acute health effects					
Eye contact	:	No known significant effects or critical hazards.			
Inhalation	:	No known significant effects or critical hazards.			
Skin contact	:	No known significant effects or critical hazards.			
Ingestion	:	No known significant effects or critical hazards.			
Symptoms related to the physical, cl	hemi	cal and toxicological characteristics			
Eye contact	:	No specific data.			
Inhalation	:	No specific data.			
Skin contact	-	No specific data.			
Ingestion	-	No specific data.			
ingestion	•				
Delayed and immediate effects as well as chronic effects from short and long-term exposure					
Short term exposure					
Potential immediate effects	:	Not available.			
Potential delayed effects		Not available.			
Long term exposure					
Potential immediate effects	:	Not available.			
Potential delayed effects	:	Not available.			
Potential chronic health effects					
Conclusion/Summary	:	Mixture.Not fully tested.			
General	:	No known significant effects or critical hazards.			
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Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects No known significant effects or critical hazards.

No known significant effects or critical hazards.

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Di(2-ethylhexyl)phthalate		· •	
	Acute LC50 1,106.2 mg/l Fresh	Fish - Fish	96 h
	water		
	Acute LC50 11,000 µg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
	Acute EC50 133 µg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute EC50 2 mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute LC50 3.31 mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute EC50 31,000,000 µg/l	Aquatic plants - Algae	96 h
	Marine water		
	Acute NOEC 76 µg/l Marine water	Aquatic plants - Algae	3 d
	Chronic NOEC 502 µg/l Fresh	Fish - Fish	90 d
	water		
	Chronic NOEC 12 µg/l Fresh water	Fish - Fish	28 d
	Chronic NOEC 12 µg/l Fresh water	Fish - Fish	28 d
	Chronic NOEC 12 µg/l Fresh water	Fish - Fish	28 d
	Chronic NOEC 40 µg/l Fresh water	Fish - Fish	35 d
	Chronic NOEC 77 µg/l Fresh water	Aquatic invertebrates.	21 d
		Daphnia	
	Chronic NOEC 0.64 mg/l Fresh	Aquatic invertebrates.	21 d
	water	Daphnia	
	Chronic NOEC 0.64 mg/l Fresh	Aquatic invertebrates.	21 d



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	water		Daphnia	
	Chronic NC	DEC 109 µg/l Fresh	Aquatic invertebrates.	21 d
	water		Crustaceans	
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Remarks - Acute - Aquatic	Chemicals a	are not readily available as	s they are bound within the	polymer matrix.
invertebrates.:		-	-	
Conclusion/Summary	:	Chemicals are not readily	y available as they are bound	nd within the
	polymer matrix.			
Persistence and degradability	<u>7</u>			
Conclusion/Summary	:	Chemicals are not readily polymer matrix.	y available as they are bound	nd within the
Conclusion/Summary	:	Chemicals are not readily polymer matrix.	y available as they are bound	nd within the

Bioaccumulative potential

Diouteumumer potentia				
Product/ingredient name	LogPow	BCF	Potential	
Di(2-ethylhexyl)phthalate	7.6	1,380.00	high	

Mobility in soil

Soil/water partition coefficient	:	Not available.
(KOC)		
Other adverse effects	:	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

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United States - RCRA Toxic hazardous waste "U" List: Listed

Ingredient	CAS #	Status	Reference number
Di(2-ethylhexyl)phthalate	117-81-7	Listed	

Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Consult mode specific transport rules
International Water IMO/IMDG	:	Consult mode specific transport rules

Section 15. Regulatory information

U.S. Federal regulations	:	 United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed
		United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report
		(PAIR): Not listed
		United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed
		United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority



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pollutants: Listed Di(2-ethylhexyl)phthalate Miscellaneous Zinc Compounds

United States - EPA Clean water act (CWA) section 311 -Hazardous substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed

Clean Air Act Section 112(b)	:	Listed
Hazardous Air Pollutants (HAPs)		
Clean Air Act Section 602 Class I	:	Not listed
Substances		
Clean Air Act Section 602 Class II	:	Not listed
Substances		
DEA List I Chemicals (Precursor	:	Not listed
Chemicals)		
DEA List II Chemicals (Essential	:	Not listed
Chemicals)		

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	RQ for component
Di(2-ethylhexyl)phthalate	117-81-7	100 lb(s) 45.4 kg

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

Name	%	Classification
Di(2-ethylhexyl)phthalate	10 - 30	AH, CH

SARA 313

	Product name	CAS number	%
Form R - Reporting	Di(2-ethylhexyl)phthalate	117-81-7	10 - 30
requirements			
Supplier notification	Di(2-ethylhexyl)phthalate	117-81-7	10 - 30

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SARA 313 notifications must not be de	etach	ned from the SDS and any copying and redistribution of the SDS shall
include copying and redistribution of the	he no	otice attached to copies of the SDS subsequently redistributed.
State regulations		
Massachusetts	:	None of the components are listed.
New York	:	The following components are listed:
		Di(2-ethylhexyl)phthalate
New Jersey	:	The following components are listed:
•		Ethene, chloro-, homopolymer
		Calcium carbonate
		Di(2-ethylhexyl)phthalate
Pennsylvania	:	The following components are listed:
		Di(2-ethylhexyl)phthalate
		Calcium carbonate
		Calcium carbonate
<u>California Prop. 65</u> WARNING: This product contains a cl	hemi	ical known to the State of California to cause cancer and birth defects or
other reproductive harm.		
United States inventory (TSCA 8b)	:	All components are listed or exempted.
Cinted States inventory (15CA 00)	•	An components are instea of exempted.
Canada inventory	:	At least one component is not listed in DSL but all such components
		are listed in NDSL.
International regulations		
mer national regulations		
Inventory list		
Australia	:	Not determined.
Canada	:	At least one component is not listed in DSL but all such components
		are listed in NDSL.
China	:	Not determined.
Europe inventory	:	All components are listed or exempted.
Japan	:	Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are listed or exempted.



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Section 16. Other information

Hazardous Material Information System (U.S.A.) :

Huzur uous Muteriur Information System (C.S.M.)		
Health	*	1
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

History		
Date of printing	:	04/11/2018
Date of issue/Date of revision	:	04/11/2017
Date of previous issue	:	03/05/2014
Version	:	1.1
Key to abbreviations	:	ATE = Acute Toxicity Estimate
		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL = International Convention for the Prevention of Pollution From
		Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
		pollution)
		UN = United Nations
References	:	Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.