

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 2/22/2024 Version: 1.0

## Safety Data Sheet

A Meridian Adhesives Group Company

SECTION 1: Identification			
1.1. Identification			
Product form Product name	: Mixture : EPO-TEK® M	/IED-OD2002	PART A
1.2. Recommended use and restrictio	ns on use		
Recommended use Restrictions on use	: Adhesives : Not to be use	d for any purp	ose other than the one the product was designed for
1.3. Supplier			
Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA T 978-667-3805 - F 978-663-9782 www.epotek.com			
1.4. Emergency telephone number			
Emergency number	: VelocityEHS:	+1 (800) 255-	3924, +1 (813) 248-0585
GHS US classification Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Skin sensitization, Category 1 Hazardous to the aquatic environment – Acut Hazardous to the aquatic environment – Chro Full text of H statements : see section 16	e Hazard Category 2	H315 H319 H317 H401 H411	Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction Toxic to aquatic life Toxic to aquatic life with long lasting effects
2.2. GHS Label elements, including p	ecautionary stateme	ents	
GHS US labeling			
Hazard pictograms (GHS US)	!	>	
Signal word (GHS US) Hazard statements (GHS US)	H319 - Cause H401 - Toxic	ause an allerg es serious eye to aquatic life	ic skin reaction
Precautionary statements (GHS US)	: P261 - Avoid P264 - Wash P272 - Conta P273 - Avoid P280 - Wear	breathing dust hands, foreart minated work release to the protective glow	t/fume/gas/mist/vapors/spray. ms and face thoroughly after handling. clothing must not be allowed out of the workplace.

P302+P352 - If on skin: Wash with plenty of water.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Harmful dust may be released during cutting, milling or grinding process.

2.4. Unknown acute toxicity (GHS US)

No additional information available

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Bisphenol A diglycidyl ether resin	CAS-No.: 1675-54-3	≥ 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Epoxy phenol novolac resin	CAS-No.: 28064-14-4	30 – 60	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 2, H411
Epoxy phenol novolac resin	CAS-No.: 9003-36-5	1 – 5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

#### Comments

: Components not listed are either non-hazardous or are below reportable limits.

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

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4.2. Most important symptoms and effects (acute and delayed)		
Symptoms/effects after skin contact Symptoms/effects after eye contact	<ul><li>Irritation. May cause an allergic skin reaction.</li><li>Eye irritation.</li></ul>	
4.3. Immediate medical attention and	special treatment, if necessary	

Treat symptomatically.

## SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chem	ical	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and preca	autions for fire-fighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measure	SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipm	ent and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures :	Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.		
6.1.2. For emergency responders			
Protective equipment :	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment ar	nd cleaning up		
For containment:Methods for cleaning up:Other information:	Collect spillage. Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site.		

### 6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
EPO-TEK® MED-OD2002 PART A	
No additional information available	
Bisphenol A diglycidyl ether resin (16	75-54-3)
No additional information available	
Epoxy phenol novolac resin (28064-14	-4)
No additional information available	
Epoxy phenol novolac resin (9003-36-	5)
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls Environmental exposure controls	<ul><li>Ensure good ventilation of the work station.</li><li>Avoid release to the environment.</li></ul>
8.3. Individual protection measures/Pe	rsonal protective equipment
Hand protection:	
a decision that depends not only on the type of	netration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is of material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer ich use and whenever signs of wear or perforation appear
Eye protection:	
Safety glasses	

Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):



SECTION 9: Physical ar	d chemical properties	
9.1. Information on basic physical and chemical properties		

- : Liquid
  - : yellowish

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Odor	: slight
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### **10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions** 

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

**10.5.** Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information			
11.1. Information on toxicologica	Il effects		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul><li>Not classified</li><li>Not classified</li><li>Not classified</li></ul>		

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LD50 oral rat	> 2000 mg/kg body weight (OECD 420: Acute Oral toyisity - Acute Toyis Class Method, Bat	
LD50 oral rat	> 2000 mg/kg body weight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))	
LD50 oral	22736 mg/kg	
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, Rat, Male / female, Experimental value, Dermal, 14 day(s))	
LD50 dermal	23200 mg/kg	
ATE US (oral)	22736 mg/kg body weight	
ATE US (dermal)	23200 mg/kg body weight	
Skin corrosion/irritation :	Causes skin irritation.	
Bisphenol A diglycidyl ether resin (1675-54-3	3)	
рН	No data available in the literature	
Epoxy phenol novolac resin (9003-36-5)		
рН	No data available in the literature	
Serious eye damage/irritation :	Causes serious eye irritation.	
Bisphenol A diglycidyl ether resin (1675-54-3	3)	
рН	No data available in the literature	
Epoxy phenol novolac resin (9003-36-5)		
рН	No data available in the literature	
Respiratory or skin sensitization :	May cause an allergic skin reaction.	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified	
Bisphenol A diglycidyl ether resin (1675-54-3	3)	
IARC group	3 - Not classifiable	
Reproductive toxicity :	Not classified	
STOT-single exposure :	Not classified	
STOT-repeated exposure :	Not classified	
Epoxy phenol novolac resin (9003-36-5)		
NOAEL (oral,rat,90 days)	≈ 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)	
	Not classified	
·····,,	No data available	
Bisphenol A diglycidyl ether resin (1675-54-3	No data available in the literature	
Viscosity, kinematic		
Epoxy phenol novolac resin (9003-36-5)		
Viscosity, kinematic	No data available in the literature	
Symptoms/effects after skin contact :	Irritation. May cause an allergic skin reaction.	

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## **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general :	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Bisphenol A diglycidyl ether resin (1675-54-3)	
EC50 - Crustacea [1]	1.7 mg/l
Epoxy phenol novolac resin (9003-36-5)	
LC50 - Fish [1]	1.9 mg/I (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Weight of evidence)
EC50 - Crustacea [1]	3.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Weight of evidence, GLP)
LC50 - Fish [2]	1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 72h - Algae [1]	1.8 mg/l (Equivalent or similar to OECD 201, Selenastrum capricornutum, Static system, Fresh water, Experimental value)
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

## 12.2. Persistence and degradability

Bisphenol A diglycidyl ether resin (1675-54-3)	
Not rapidly degradable	
Persistence and degradability Not readily biodegradable in water.	
Epoxy phenol novolac resin (28064-14-4)	
Persistence and degradability	Biodegradability in soil: no data available.
Epoxy phenol novolac resin (9003-36-5)	
Not rapidly degradable	
Persistence and degradability	Not readily biodegradable in water.

## 12.3. Bioaccumulative potential

Bisphenol A diglycidyl ether resin (1675-54-3)		
BCF - Other aquatic organisms [1]     31 (QSAR, Fresh weight)		
Partition coefficient n-octanol/water (Log Pow)	≥ 2.918 (Experimental value, EU Method A.8: Partition Coefficient, 25 °C)	
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).		
Epoxy phenol novolac resin (28064-14-4)		
Bioaccumulative potential No bioaccumulation data available.		
Epoxy phenol novolac resin (9003-36-5)		
Partition coefficient n-octanol/water (Log Pow) 2.7 – 3.6 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

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12.4. Mobility in soil		
Bisphenol A diglycidyl ether resin (1675-54-3	)	
Surface tension	58.7 – 58.9 mN/m (20 °C, EU Method A.5: Surface tension)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)	
Ecology - soil	Low potential for adsorption in soil.	
Epoxy phenol novolac resin (9003-36-5)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.65 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
Ecology - soil	Low potential for mobility in soil.	
Ecology - soil	Low potential for mobility in soil.	

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	IS
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

In accordance with DOT / TDG / IN	IDG / IATA	
14.1. UN number		
DOT NA No	: UN3082	
UN-No. (TDG)	: UN3082	
UN-No. (IMDG)	: 3082	
UN-No. (IATA)	: 3082	

14.2. ON proper snipping name	
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s. (Epoxy Phenol Novolac, Bisphenol A diglycidyl ether resin)
Proper Shipping Name (TDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Phenol Novolac, Bisphenol A diglycidyl ether resin)
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Phenol Novolac, Bisphenol A diglycidyl ether resin)
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s. (Epoxy Phenol Novolac, Bisphenol A diglycidyl ether resin)

## 14.3. Transport hazard class(es)

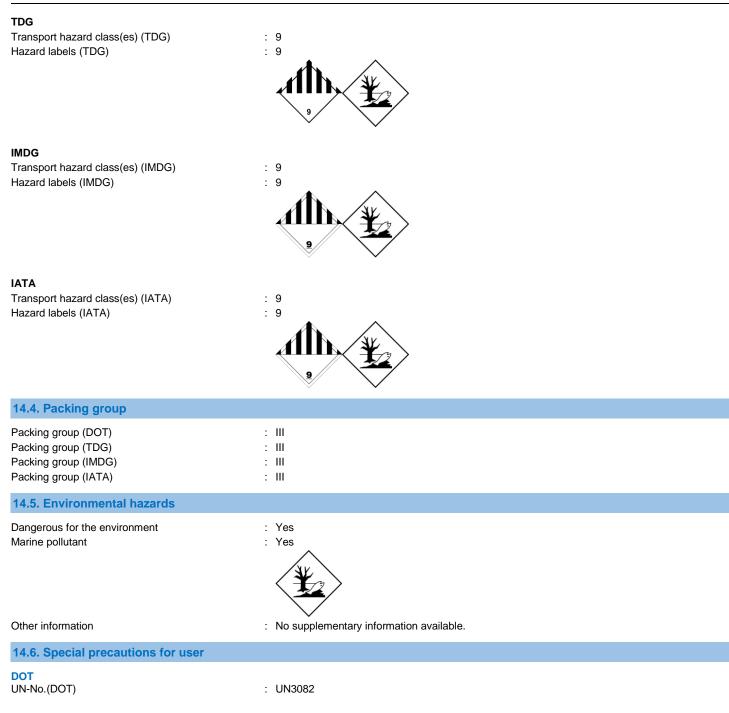
### DOT

Transport hazard class(es) (DOT)	:	9
Hazard labels (DOT)	:	9



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DOT Special Provisions (49 CFR 172.102)	<ul> <li>8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.</li> </ul>
	146 - This description may be used for a material that poses a hazard to the environment but
	does not meet the definition for a hazardous waste or a hazardous substance, as defined in
	171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.
	173 - An appropriate generic entry may be used for this material.
	335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s,"
	UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.
	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite
	(31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids
	with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55
	C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
	T4 - 2.65 178.274(d)(2) Normal 178.275(d)(3)
	TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a$ (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49	: No limit
CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49	: No limit
CFR 175.75)	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
TDG	

UN-No. (TDG)

: UN3082

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TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly
	contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause
	3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in
	parentheses, on a small means of containment or on a tag following the shipping name in
	accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks).
	(2) Despite subsection (1), the technical name for the following dangerous goods is not required
	to be shown on a shipping document or on a small means of containment when Canadian law for
	domestic transport or an international convention for international transport prohibits the
	disclosure of the technical name:
	(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;
	(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;
	(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;
	(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or
	<ul><li>(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.</li><li>(3) Despite subsection (1), the technical name for the following dangerous goods is not required</li></ul>
	to be shown on a small means of containment:
	(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or
	(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS,99 - (1) Mixtures of solids that
	are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S, may be handled, offered for transport or transported as UN3077 if
	there is no visible liquid when the dangerous goods are loaded into a means containment and
	during transport.
	(2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General
	Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering
	for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, LIQUID, N.O.S, on a road vehicle or a railway vehicle. The
	dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport,
	including handling, there will be no accidental release of the dangerous goods that could
	endanger public safety.
Explosive Limit and Limited Quantity Index	: 5L
Excepted quantities (TDG)	: E1
Emergency Response Guide (ERG) Number	: 171
IMDG Special provision (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A
ΙΑΤΑ	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L

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Special provision (IATA) ERG code (IATA) : A97, A158, A197, A215 : 9L

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

Not applicable

### **SECTION 15: Regulatory information**

#### **15.1. US Federal regulations**

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### **15.2. International regulations**

#### CANADA

**Bisphenol A diglycidyl ether resin (1675-54-3)** 

Listed on the Canadian DSL (Domestic Substances List)

Epoxy phenol novolac resin (28064-14-4)

Listed on the Canadian DSL (Domestic Substances List)

Epoxy phenol novolac resin (9003-36-5)	
Listed on the Canadian DSL (Domestic Substances List)	

#### **EU-Regulations**

No additional information available

National regulations

Epoxy phenol novolac resin (9003-36-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### **SECTION 16: Other information**

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Full text of H-phrases	
H315 Causes skin irritation	
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Safety Data Sheet (SDS), USA

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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SECTION 1: Identification		
1.1. Identification		
Product form Product name	: Mixture : EPO-TEK® MED-OD2002 PART B	
1.2. Recommended use and restrictions of	n use	
Recommended use Restrictions on use	: Adhesives : Not to be used for any purpose other than the one the product was designed for	
1.3. Supplier		
Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA T 978-667-3805 - F 978-663-9782 www.epotek.com		
1.4. Emergency telephone number		
Emergency number	: VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mixture		
GHS US classification		

Acute toxicity (oral) Category 4 Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Skin sensitization, Category 1	H302 H314 H318 H317	Harmful if swallowed Causes severe skin burns and eye damage Causes serious eye damage May cause an allergic skin reaction
Carcinogenicity Category 2	H351	Suspected of causing cancer
Reproductive toxicity Category 1B	H360	May damage fertility or the unborn child
Full text of H statements : see section 16		

### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)

Precautionary statements (GHS US)



- : H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H351 Suspected of causing cancer
- H360 May damage fertility or the unborn child
- : P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

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P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P302+P352 - If on skin: Wash with plenty of water. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - If exposed or concerned: Get medical advice/attention. P310 - Immediately call a poison center or doctor. P321 - Specific treatment (see supplemental first aid instruction on this label). P330 - Rinse mouth. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification

: Harmful dust may be released during cutting, milling or grinding process.

2.4. Unknown acute toxicity (GHS US)

No additional information available

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

- Not applicable
- 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Substituted imidazole	CAS-No.: 931-36-2	30 – 60	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317
Imidazole	CAS-No.: 288-32-4	≥ 30	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360
Substituted imidazole	CAS-No.: 822-36-6	5 – 10	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Carc. 2, H351
Substituted imidazole	CAS-No.: 23996-25-0	< 5	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

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Name	Product identifier	%	GHS US classification
Substituted anhydride	CAS-No.: 616-47-7	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314

Comments

: Components not listed are either non-hazardous or are below reportable limits.

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret Full text of hazard classes and H-statements : see section 16

## **SECTION 4: First-aid measures**

4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effect	cts (acute and delayed)
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chemical		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and precautions for fire-fighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protecti	ve equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		

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6.2. Environmental precautions			
Avoid release to the environment. Notify authorities if product enters sewers or public waters.			
6.3. Methods and material for containme	nt and cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, include	ding any incompatibilities

Storage conditions

: Store locked up. Store in a well-ventilated place. Keep cool.

## **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters	
EPO-TEK® MED-OD2002 PART B	
No additional information available	
Substituted anhydride (616-47-7)	
No additional information available	
Substituted imidazole (822-36-6)	
No additional information available	
Substituted imidazole (931-36-2)	
No additional information available	
Substituted imidazole (23996-25-0)	
No additional information available	
Imidazole (288-32-4)	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls Environmental exposure controls	<ul><li>Ensure good ventilation of the work station.</li><li>Avoid release to the environment.</li></ul>

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### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's information. Gloves must be replaced after each use and whenever signs of wear or perforation appear

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):



### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Amber
Odor	: Mild odour
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

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### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability** 

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid** 

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials** 

No additional information available

**10.6. Hazardous decomposition products** 

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

11.1. Information on toxicological effects		
Acute toxicity (dermal)	Harmful if swallowed. Not classified Not classified	
EPO-TEK® MED-OD2002 PART B		
ATE US (oral)	490.339 mg/kg body weight	
Substituted anhydride (616-47-7)		
LD50 oral rat	≈ 1144 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:	
LD50 dermal rabbit	400 – 640 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
ATE US (oral)	500 mg/kg body weight	
ATE US (dermal)	400 mg/kg body weight	
Substituted imidazole (822-36-6)		
LD50 oral rat	350 mg/kg Source: IUCLID	
LD50 oral	173 mg/kg	
LD50 dermal rabbit	440 mg/kg Source: IUCLID	
ATE US (oral)	173 mg/kg body weight	
ATE US (dermal)	440 mg/kg body weight	
Substituted imidazole (931-36-2)		
LD50 oral rat	731 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)	

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Substituted imidazole (931-36-2)	
LD50 dermal rabbit	> 400 mg/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal)
LC50 Inhalation - Rat	> 0.03 mg/l (Equivalent or similar to OECD 403, 8 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (vapours))
ATE US (oral)	731 mg/kg body weight
Substituted imidazole (23996-25-0)	
ATE US (oral)	100 mg/kg body weight
Imidazole (288-32-4)	
LD50 oral rat	970 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 7 day(s))
LD50 oral	960 mg/kg
ATE US (oral)	960 mg/kg body weight
Skin corrosion/irritation :	Causes severe skin burns.
Substituted anhydride (616-47-7)	
рН	11.3 (10 %)
Substituted imidazole (822-36-6)	
рН	10.6 (10 %)
Substituted imidazole (931-36-2)	·
рН	10.9 (21 %)
Imidazole (288-32-4)	
рН	10.5 (7 %)
Serious eye damage/irritation :	Causes serious eye damage.
Substituted anhydride (616-47-7)	
рН	11.3 (10 %)
Substituted imidazole (822-36-6)	
рН	10.6 (10 %)
Substituted imidazole (931-36-2)	
рН	10.9 (21 %)
Imidazole (288-32-4)	
рН	10.5 (7 %)
	May cause an allergic skin reaction.
	Not classified
Carcinogenicity : Substituted imidazole (822-36-6)	Suspected of causing cancer.
IARC group	2B - Possibly carcinogenic to humans
	May damage fertility or the unborn child.
	Not classified

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Substituted imidazole (23996-25-0)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure :	Not classified
Substituted anhydride (616-47-7)	
NOAEL (oral,rat,90 days)	90 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
Substituted imidazole (931-36-2)	
NOAEL (oral,rat,90 days)	150 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:EPA OPPTS 870.3650 (Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test)
Imidazole (288-32-4)	
NOAEL (oral,rat,90 days)	60 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Aspiration hazard :	Not classified
Viscosity, kinematic :	No data available
Substituted imidazole (931-36-2)	
Viscosity, kinematic	1435.897 mm²/s
Imidazole (288-32-4)	
Viscosity, kinematic	No data available in the literature
Symptoms/effects after eye contact :	Burns. May cause an allergic skin reaction. Serious damage to eyes. Burns.

## **SECTION 12: Ecological information**

12.1. Toxicity		
Ecology - general :	: Before neutralisation, the product may represent a danger to aquatic organisms.	
Substituted anhydride (616-47-7)		
LC50 - Fish [1]	100 – 215 mg/l Test organisms (species): Leuciscus idus	
EC50 - Crustacea [1]	267.94 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	180 mg/l (Algae)	
EC50 96h - Algae [1]	12.637 mg/l Source: Ecological Structure Activity Relationships	
Substituted imidazole (822-36-6)		
LC50 - Fish [1]	0.34 mg/l Source: IUCLID	
EC50 - Crustacea [1]	180 mg/l Source: IUCLID	
EC50 72h - Algae [1]	2 mg/l Source: IUCLID	
Substituted imidazole (931-36-2)		
LC50 - Fish [1]	68.1 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value)	

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Substituted imidazole (931-36-2)		
EC50 - Crustacea [1]	297.3 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)	
EC50 72h - Algae [1]	124.8 mg/l (DIN 38412-9, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)	
EC50 72h - Algae [2]	72 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
EC50 96h - Algae [1]	6.057 mg/l Source: Ecological Structure Activity Relationships	
Imidazole (288-32-4)		
LC50 - Fish [1]	283.6 mg/l (48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 - Crustacea [1]	341.5 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
EC50 72h - Algae [1]	133 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
ErC50 algae	133 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)	
NOEC chronic algae	25 mg/l	

## 12.2. Persistence and degradability

Substituted anhydride (616-47-7)	
Not rapidly degradable	
Persistence and degradability	Not readily biodegradable in water.
Substituted imidazole (822-36-6)	
Not rapidly degradable	
Persistence and degradability	Inherently biodegradable.
Biochemical oxygen demand (BOD)	0.000002 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.0015 g O <sub>2</sub> /g substance
Substituted imidazole (931-36-2)	
Not rapidly degradable	
Persistence and degradability	Readily biodegradable in water.
Substituted imidazole (23996-25-0)	
Not rapidly degradable	
Imidazole (288-32-4)	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.
12.3. Bioaccumulative potential	
Substituted anhydride (616-47-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.06 Source: ChemIDplus

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Substituted imidazole (822-36-6)	
Partition coefficient n-octanol/water (Log Pow)	0.35 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Substituted imidazole (931-36-2)	
Partition coefficient n-octanol/water (Log Pow)	1.13 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Imidazole (288-32-4)	
Partition coefficient n-octanol/water (Log Pow)	-0.02 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
Substituted anhydride (616-47-7)	
Mobility in soil	15.75 Source: Quantitative Structure Activity Relation
Substituted imidazole (822-36-6)	
Mobility in soil	28.23 Source: EPI SUITE
	No (toot) data an mahility of the substance sucilable

Mobility in soil	28.23 Source: EPI SUITE
Ecology - soil	No (test)data on mobility of the substance available.
Substituted imidazole (931-36-2)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.71 (log Koc, Calculated value, pH = 7)
Ecology - soil	Low potential for mobility in soil.
Imidazole (288-32-4)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.36 – 2.32 (log Koc, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

**12.5. Other adverse effects** 

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number	14.1.	UN	number	
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UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN3267 : 3267 : 3267
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Corrosive liquid, basic, organic, n.o.s. (Imidazole)</li> </ul>
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT) Hazard labels (DOT)	: 8 : 8
<b>TDG</b> Transport hazard class(es) (TDG) Hazard labels (TDG)	: 8 : 8
IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: 8 : 8
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 8 : 8
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: III : III : III : III
14.5. Environmental hazards	
Other information	: No supplementary information available.

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### **14.6. Special precautions for user**

14.01 opeolal predatione for addr	
DOT	
UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	<ul> <li>UN3267</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49	: 60 L
CFR 175.75)	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters",52 - Stow "separated from" acids
TDG	
UN-No. (TDG)	: UN3267
TDG Special Provisions	<ul> <li>16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks).</li> <li>(2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name:</li> <li>(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;</li> <li>(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;</li> <li>(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;</li> <li>(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or</li> <li>(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.</li> <li>(3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:</li> <li>(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or</li> <li>(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.</li> </ul>
Explosive Limit and Limited Quantity Index	: 5L
Excepted quantities (TDG)	: E1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index Emergency Response Guide (ERG) Number	: 5 L : 153
IMDG Special provision (IMDC)	. 000 074
Special provision (IMDG)	: 223, 274
Limited quantities (IMDG) Excepted quantities (IMDG)	: 5L : E1
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Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SGG18, SG35
Properties and observations (IMDG)	: Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.
ΙΑΤΑ	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3, A803
ERG code (IATA)	: 8L

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

#### Not applicable

### **SECTION 15: Regulatory information**

**15.1. US Federal regulations** 

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### **15.2. International regulations**

#### CANADA

Substituted anhydride (616-47-7)

Listed on the Canadian DSL (Domestic Substances List)

Substituted imidazole (822-36-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Substituted imidazole (931-36-2)

Listed on the Canadian DSL (Domestic Substances List)

Substituted imidazole (23996-25-0)

Listed on the Canadian DSL (Domestic Substances List)

### Imidazole (288-32-4)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

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#### **National regulations**

### Substituted anhydride (616-47-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Substituted imidazole (822-36-6)

Listed on IARC (International Agency for Research on Cancer)

#### Imidazole (288-32-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 15.3. US State regulations

This product can expose you to 4-Methylimidazole, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### **SECTION 16: Other information**

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Full text of H-phrases	
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.