

EPOCAST® 1610-A2 US

Version	Revisi
1.0	06/01/

vision Date: /01/2016

SDS Number:	
400001018109	

Date of first issue: 06/01/2016

Date of last issue: -

SECTION 1. IDENTIFICATION

Product name	: EPOCAST® 1610-A2 US
Manufacturer or supplier's de	etails
Company name of supplier Address	 Huntsman Advanced Materials Americas LLC P.O. Box 4980 The Woodlands, TX 77387 United States of America
Telephone	: Non-Emergency: (800) 257-5547
E-mail address of person responsible for the SDS	: MSDS@huntsman.com
Emergency telephone number	: Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification	
Skin irritation	: Category 2
Serious eye damage	: Category 1
Skin sensitisation	: Category 1
Carcinogenicity	: Category 2
Reproductive toxicity	: Category 2
Specific target organ toxicity - repeated exposure	: Category 2 (Liver, Thyroid, Adrenal gland, Gastrointestinal tract)
Acute aquatic toxicity	: Category 1
Chronic aquatic toxicity	: Category 1
GHS label elements Hazard pictograms	
Signal word	: Danger
Hazard statements	: H315 Causes skin irritation.





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		H318 Causes H351 Suspect H361 Suspect H373 May cau gland, Gastroir exposure.	se an allergic skin reaction. serious eye damage. ed of causing cancer. ed of damaging fertility or the unborn child. se damage to organs (Liver, Thyroid, Adrenal ntestinal tract) through prolonged or repeated ic to aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P272 Contami the workplace. P273 Avoid rel P280 Wear pro face protection Response: P302 + P352 I P305 + P351 4 water for sevel and easy to do CENTER/docte P308 + P313 I attention. P333 + P313 I attention. P362 + P364 T reuse. P391 Collect s Storage: P405 Store loo Disposal:	reathe dust/ fume/ gas/ mist/ vapours/ spray. in thoroughly after handling. nated work clothing should not be allowed out of lease to the environment. otective gloves/ protective clothing/ eye protection. F ON SKIN: Wash with plenty of water. + P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON or. F exposed or concerned: Get medical advice/ f skin irritation or rash occurs: Get medical advice fake off contaminated clothing and wash it befor pillage. cked up.

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Bisphenol A epoxy resin	25068-38-6	30 - 60
Butanedioldiglycidyl ether	2425-79-8	3 - 7
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bis[oxirane]	25036-25-3	1 - 3
Phenol, 4-nonyl-, branched	84852-15-3	1 - 3



diuron

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trime	thoxy(methyl)silane		1185-55-3	1 - 3
hexa	boron dizinc undecao	xide	12767-90-7	0.1 - 1

330-54-1

SECTION 4. FIRST AID MEASURES

General advice	Get medical attention if symptoms occur. Show this safety data sheet to the doctor in atte	ndance.
If inhaled	Move to fresh air.	
In case of skin contact	Nash off with soap and plenty of water.	
In case of eye contact	n case of eye contact, remove contact lens and mmediately with plenty of water, also under the east 15 minutes. Keep eye wide open while rinsing.	
If swallowed	Clean mouth with water and drink afterwards ple Do NOT induce vomiting.	enty of water.
Most important symptoms and effects, both acute and delayed	None known.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet
Specific extinguishing methods	: No data is available on the product itself.
Further information	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Avoid dust formation.
protective equipment and	Avoid breathing dust.
emergency procedures	Use personal protective equipment.
Environmental precautions	: Do not contaminate surface water.



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Methods and materials for containment and cleaning up	:	Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).
		Pick up and arrange disposal without creating dust.
		Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Ensure that eyewash stations and safety showers are close to the workstation location.
Local/Total ventilation	:	Ensure adequate ventilation.
Advice on safe handling	:	Avoid inhalation, ingestion and contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Avoid creating dust.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place.
Materials to avoid	:	No special restrictions on storage with other products.
		Strong bases Keep away from oxidizing agents. Keep away from strong acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
diuron	330-54-1	TWA	10 mg/m3	CA AB OEL
		TWA	10 mg/m3	CA BC OEL
		TWAEV	10 mg/m3	CA QC OEL
		TWA	10 mg/m3	ACGIH
F				

Engineering measures

: Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Respiratory protection	:	Recommended Filter type: Combined particulates and organic vapour type
Filter type	:	Filter type A-P
Respiratory protection	:	No personal respiratory protective equipment normally required.



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Mate	l protection rial k through time	: butyl-rubbe Ethyl Vinyl : > 8 h Nitrile rubbe Neoprene 10 - 480 mi	Alcohol Laminate (EVAL) er
Rem	arks	with the pro Take note c concerning	ity for a specific workplace should be discussed ducers of the protective gloves. of the information given by the producer permeability and break through times, and of kplace conditions (mechanical strain, duration of
Eye	protection	: Safety glass	ses with side-shields
Skin	and body protection	: Impervious	clothing
Hygi	ene measures	Wash hand Provide ade Do not brea	g do not eat or drink. s before breaks and at the end of workday. equate ventilation. athe dust. athe vapours, mist or gas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: solid, paste
Colour	: off-white
Odour	: slight
Odour Threshold	: No data is available on the product itself.
рН	: No data is available on the product itself.
Boiling point	: >200 °C
Flash point	: > 94 °CMethod: closed cup
Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.
Flammability (liquids)	: No data is available on the product itself.
Upper explosion limit	: No data is available on the product itself.
Lower explosion limit	: No data is available on the product itself.
Vapour pressure	: <1.333 hPa (20 °C)



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Rela	tive vapour density	: 1		
Rela	tive density	: 0.46 - 0.5		
Dens	sity	: 0.48 g/cm3 (25	ο°C)	
	bility(ies) ater solubility	: insoluble (20 °	C)	
Sc	olubility in other solvents	: No data is avai	lable on the product itself.	
	tion coefficient: n-	: No data is avai	lable on the product itself.	
	nol/water -ignition temperature	: No data is avai	lable on the product itself.	
Deco	omposition temperature	: > 200 °C		
deco	Accelerating mposition temperature	: No data is avai	lable on the product itself.	
(SAE Vi	scosity	: No data is avai	lable on the product itself.	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability	 Not classified as a reactivity hazard. The product is chemically stable. polymerisation
Possibility of hazardous reactions	: None known.
Conditions to avoid	: None known.
Incompatible materials	: Strong acids and strong bases Oxidizing agents
Hazardous decomposition products	: No decomposition if stored normally.
p.00000	Carbon oxides Oxides of phosphorus Burning produces noxious and toxic fumes. Aldehydes Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: No data is available on the product itself.	
Acute toxicity Acute oral toxicity - Product	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method	



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Pro	oduct	Exposure time: 4 Test atmosphere Method: Calculat	: dust/mist
	ute dermal toxicity - oduct	: Acute toxicity est Method: Calculat	timate : > 5,000 mg/kg tion method
	ute toxicity (other routes of ninistration)	: No data available	9
Sk	in corrosion/irritation		
Bis Sp Ass Me Re Bu Sp Me	mponents: phenol A epoxy resin: ecies: Rabbit sessment: Mild skin irritant thod: OECD Test Guideline sult: Irritating to skin. tanedioldiglycidyl ether: ecies: Rabbit thod: OECD Test Guideline sult: Skin irritation		
phe	enol, 4,4'-(1-methylethylide enyleneoxymethylene)]bis[o sult: Skin irritation		2,2'-[(1-methylethylidene)bis(4,1-
Sp As:	enol, 4-nonyl-, branched: ecies: Rabbit sessment: Causes burns. sult: Causes burns.		
Sp As: Me	nethoxy(methyl)silane: ecies: Rabbit sessment: No skin irritation thod: OECD Test Guideline sult: No skin irritation		
Sp Ass Me	ron: ecies: Rabbit sessment: No skin irritation thod: OECD Test Guideline sult: No skin irritation		
As: Me	ecies: Rabbit sessment: Mild skin irritant thod: OPPTS 870.2500 sult: Mild skin irritation		
Se	rious eye damage/eye irri	tation	
	mponents:		
Bis	phenol A epoxy resin:		





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Species: Rabbit Result: Irritating to eyes. Assessment: Mild eye irritant Method: OECD Test Guideline 405

Butanedioldiglycidyl ether: Species: Rabbit Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]: Result: Eye irritation

Phenol, 4-nonyl-, branched: Result: Risk of serious damage to eyes.

trimethoxy(methyl)silane: Species: Rabbit Result: No eye irritation Assessment: No eye irritation Method: OECD Test Guideline 405

diuron: Species: Rabbit Result: Irritation to eyes, reversing within 7 days Assessment: No eye irritation Method: OECD Test Guideline 405

Species: Rabbit Result: Irritation to eyes, reversing within 7 days Assessment: Mild eye irritant Method: OPPTS 870.2400

Respiratory or skin sensitisation

Components:

Bisphenol A epoxy resin: Exposure routes: Skin Species: Mouse Assessment: May cause sensitisation by skin contact. Method: OECD Test Guideline 429 Result: Causes sensitisation.

Butanedioldiglycidyl ether: Exposure routes: Skin Species: Guinea pig Method: OECD Test Guideline 406 Result: May cause sensitisation by skin contact.

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]: Result: May cause sensitisation by skin contact.

Phenol, 4-nonyl-, branched: Exposure routes: Skin



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Species: Guinea pig Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

trimethoxy(methyl)silane: Exposure routes: Skin Species: Guinea pig Method: OECD Test Guideline 406 Result: Causes sensitisation.

diuron: Exposure routes: Skin Species: Guinea pig Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

Exposure routes: Skin Species: Guinea pig Method: OPPTS 870.2600 Result: Does not cause skin sensitisation.

Assessment:

No data available

Germ cell mutagenicity

Components:	
Bisphenol A epoxy resin: Genotoxicity in vitro :	Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: positive
	Concentration: 0 - 5000 ug/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: positive
Butanedioldiglycidyl ether: Genotoxicity in vitro :	Concentration: 10 - 5000 ug/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: positive
	Concentration: 1 - 100 µg/L Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: positive
diuron: Genotoxicity in vitro :	Concentration: 360 µg/L Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
	Concentration: 2000 ug/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471



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EPOCAST® 1610-A2 US Version Revision Date: SDS Number: Date of last issue: -400001018109 1.0 06/01/2016 Date of first issue: 06/01/2016 **Result:** negative Method: OECD Test Guideline 473 **Result:** negative **Components:** Bisphenol A epoxy resin: Genotoxicity in vivo Cell type: Germ Application Route: Oral Method: OECD Test Guideline 478 Result: negative Cell type: Somatic Application Route: Oral Dose: 0 - 5000 mg/kg Method: OPPTS 870.5395 **Result: negative** Butanedioldiglycidyl ether: Genotoxicity in vivo Test Type: In vivo micronucleus test Species: Mouse Cell type: Somatic **Application Route: Oral** Exposure time: 4 d Dose: 187.5 - 750 mg/kg Method: OECD Test Guideline 474 Result: negative Test Type: unscheduled DNA synthesis assay Species: Rat Cell type: Liver cells **Application Route: Oral** Method: OECD Test Guideline 486 **Result:** negative trimethoxy(methyl)silane: Genotoxicity in vivo : Application Route: Oral Dose: 2000 mg/kg Method: OECD Test Guideline 474 Result: negative diuron: Genotoxicity in vivo : Application Route: Intraperitoneal injection Dose: 700 mg/kg Method: OECD Test Guideline 474 **Result: negative Components:** Bisphenol A epoxy resin: Germ cell mutagenicity-: Weight of evidence does not support classification as a germ Assessment cell mutagen. Butanedioldiglycidyl ether: Germ cell mutagenicity-: Weight of evidence does not support classification as a germ





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_		Assess	ment	cell mutagen.	
		Germ c Assess	ell mutagenicity- ment	: No data available	
		Carcin	ogenicity		
		Species Applica Exposu Dose: 1 Freque Method	onents: nol A epoxy resin: s: Rat, (male and femal tion Route: Oral ire time: 24 month(s) 5 mg/kg ncy of Treatment: 7 day I: OECD Test Guideline negative	ys/week	
		Applica Exposu Dose: 0 Freque Method	s: Mouse, (male) tion Route: Dermal tre time: 24 month(s) 0.1 mg/kg ncy of Treatment: 3 day I: OECD Test Guideline negative		
		Applica Exposu Dose: 1 Freque Method	s: Rat, (female) tion Route: Dermal re time: 24 month(s) mg/kg ncy of Treatment: 5 day : OECD Test Guideline negative	ys/week 9 453	
		Applica Exposu Dose: 1 Freque Method Result:	s: Rat, (male and femal tion Route: Oral re time: 24 month(s) - 17 mg/kg ncy of Treatment: 7 dai : OECD Test Guideline positive Organs: Bladder	ly	
		Applica Dose: <	s: Rat, (male and femal tion Route: Oral < 600 mg/kg positive	e)	
		Carcino Assess	ogenicity - ment	: No data available	
		ACGIH	I	Suspected human ca	arcinogen
				quartz (SiO2)	





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Re	productive toxicity		
Co	mponents:		
Bis	phenol A epoxy resin: ects on fertility	: Test Type: Two-generation study Species: Rat, male and female Application Route: Oral Dose: >750 milligram per kilogram General Toxicity - Parent: No-observed-effect level: 540 mg/kg body weight General Toxicity F1: No-observed-effect level: 540 mg/kg body weight Symptoms: No adverse effects Method: OECD Test Guideline 416 Result: No effects on fertility and early embryonic development were detected.	
trim	nethoxy(methyl)silane:		
		Species: Rat, m Application Rou Method: OECD	
diu	ron:		
		Species: Rat, m Application Rou Method: OECD	
		Species: Rat, m Application Rou	
Bis Effe	mponents: phenol A epoxy resin: ects on foetal velopment	: Species: Rabbit Application Rou General Toxicity 30 mg/kg body Method: Other g Result: No terat	te: Dermal / Maternal: No observed adverse effect level: weight juidelines
		60 mg/kg body	te: Oral / Maternal: No observed adverse effect level: weight Test Guideline 414
		180 mg/kg body	te: Oral / Maternal: No observed adverse effect level: / weight Test Guideline 414
Phe	enol, 4-nonyl-, branched:	Species: Rat, fe Application Rou	





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		75 mg/kg body	Test Guideline 414
trimeth	noxy(methyl)silane:		
		1,000 mg/kg bo	te: Oral / Maternal: No observed adverse effect level: dy weight Test Guideline 422
diuron			
	-	16 mg/kg body	te: Oral / Maternal: No observed adverse effect level: weight Test Guideline 414
		10 mg/kg body	te: Oral / Maternal: No observed adverse effect level: weight Test Guideline 414
		Species: Rat, fe Application Rou General Toxicity > 125 mg/kg bo Result: Teratoge	te: Oral / Maternal: No observed adverse effect level: dy weight
Pheno	<u>onents:</u> I, 4-nonyl-, branched: ductive toxicity - sment	: Suspected hum	an reproductive toxicant
	- single exposure a available		

STOT - repeated exposure

Components:

trimethoxy(methyl)silane: Target Organs: Liver, Thyroid, Adrenal gland, Gastrointestinal tract Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Bisphenol A epoxy resin: Species: Rat, male and female NOAEL: 50 mg/kg



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Application Route: Ingestion Exposure time: 14 Weeks Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female NOEL: 10 mg/kg Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 5 d Method: Subchronic toxicity

Species: Mouse, male NOAEL: 100 mg/kg Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 3 d Method: Subchronic toxicity

Butanedioldiglycidyl ether: Species: Rat, male and female NOAEL: 200 mg/kg Application Route: Ingestion Exposure time: 28 d Number of exposures: 7 d Method: Subacute toxicity

Phenol, 4-nonyl-, branched: Species: Rat, male and female NOAEL: 100 mg/kg Application Route: Ingestion Exposure time: 672 h Number of exposures: 7 d Method: Subacute toxicity

Species: Rat, male and female NOAEL: 50 mg/kg Application Route: Ingestion Exposure time: 2,160 h Number of exposures: 7 d Method: Subchronic toxicity

trimethoxy(methyl)silane: Species: Rat, male and female : 50 mg/kg, 100 ppm Application Route: Ingestion Test atmosphere: vapour Exposure time: 672 h Number of exposures: 7 d Method: OECD Test Guideline 413

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Species: Rat, male and female : 6.7 - 8.7 mg/kg, 4.1 - 37.4 mg/m3 Application Route: Ingestion Test atmosphere: dust/mist Exposure time: 8 Weeks Number of exposures: 7 d Method: OECD Test Guideline 412

Species: Dog, male and female NOAEL: 1.8 mg/kg/d Application Route: Ingestion Exposure time: 8,640 h Number of exposures: 7 d Method: Chronic toxicity

Species: Rabbit, male and female NOAEL: 250 mg/kg/d Application Route: Skin contact Exposure time: 504 h Number of exposures: 5 d Method: Subacute toxicity

Repeated dose toxicity - : No data available Assessment

Aspiration toxicity

No data available

Experience with human exposure

- General Information: No data available
- Inhalation: No data available
- Skin contact: No data available
- Eye contact: No data available
- Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

<u>Components:</u> trimethoxy(methyl)silane:



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Remarks: Solvents may degrease the skin.

Other health hazards

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity **Components:** Bisphenol A epoxy resin: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.5 mg/l Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 203 Butanedioldiglycidyl ether: : LC50 (Brachydanio rerio (zebrafish)): 24 mg/l Toxicity to fish Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 203 Phenol, 4-nonyl-, branched: Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.128 mg/l Exposure time: 96 h Test Type: flow-through test Test substance: Fresh water Method: ASTM Method, other LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.209 mg/l Exposure time: 96 h Test Type: flow-through test Test substance: Fresh water Method: ASTM Method, other LC50 (Oncorhynchus mykiss (rainbow trout)): 0.221 mg/l Exposure time: 96 h Test Type: flow-through test Test substance: Fresh water Method: ASTM Method, other trimethoxy(methyl)silane: : LC50 (Oncorhynchus mykiss (rainbow trout)): > 110 mg/l Toxicity to fish Exposure time: 96 h Test Type: flow-through test Test substance: Fresh water Method: OECD Test Guideline 203 diuron: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 14.7 mg/l Exposure time: 96 h Test Type: static test



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			st substance: thod: OECD 1	Fresh water Fest Guideline 203	
		Exp	50 (Pimephale posure time: 9 st substance:		
Comp	oonents:				
Toxici	enol A epoxy resin: ty to daphnia and other ic invertebrates	Exµ Tes	50 (Daphnia i bosure time: 4 st Type: static st substance:	test	
Toxici	edioldiglycidyl ether: ty to daphnia and other ic invertebrates	Exp Tes Tes	oosure time: 2 st Type: static st substance:	test	
Toxici	ol, 4-nonyl-, branched: ty to daphnia and other ic invertebrates	Exp Tes Tes	oosure time: 4 st Type: static st substance:	test	
		Exp Tes	oosure time: 4 st substance:		
Toxici	hoxy(methyl)silane: ty to daphnia and other ic invertebrates	Exp Tes Tes	bosure time: 4 st Type: flow-t st substance:	hrough test	
	n: ty to daphnia and other ic invertebrates	Exp Tes Tes	posure time: 4 st Type: static st substance:	test	
Bisph	oonents: enol A epoxy resin: ty to algae	Exµ Tes Tes	50 (Selenastr posure time: 7 st Type: static st substance: thod: EPA-66	test Fresh water	g/I



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sion		-	9S Number: 0001018109	Date of last issue: - Date of first issue: 06/01/2016
	edioldiglycidyl ether: y to algae	:	EL50: > 160 mg/l Exposure time: 72 Test Type: static t Test substance: F Method: OECD Te	rest Tresh water
Phenol, 4-nonyl-, branched: Toxicity to algae		:	EbC50 (Desmode subspicatus)): 1.3 Exposure time: 72 Test Type: static t Test substance: F	2 h rest
			Exposure time: 96 Test Type: static t Test substance: F	rest
	noxy(methyl)silane: ty to algae	:	EgC50 (Selenastr mg/l Exposure time: 72 Test Type: static t Test substance: F Method: OECD Te	est resh water
diuron Toxicit	: y to algae	:	EC50 (Other): 22 Exposure time: 96 Test Type: static t Test substance: F Method: OECD Te	6 h rest Tresh water
			EC50 (Selenastru Exposure time: 96 Test substance: F	
Pheno M-Fac toxicity		-	10	
	oron dizinc undecaoxide tor (Acute aquatic /)		1	
diuron	:		1	
M-Fac toxicity	tor (Acute aquatic /)	:	10	
			10	
	onents: I 4-popyl- branched:			
	l, 4-nonyl-, branched: y to fish (Chronic /)	:	NOEC (Oncorhyn Exposure time: 91	chus mykiss (rainbow trout)): 0.006 mg/l I d



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ersion .0	Revision Date: 06/01/2016	SDS Number: 400001018109	Date of last issue: - Date of first issue: 06/01/2016
		Test Type: flow Test substance	
diuror Toxici toxicit	ity to fish (Chronic	Exposure time: Test Type: sem Test substance	i-static test
Bisph Toxici aquat	oonents: enol A epoxy resin: ity to daphnia and other ic invertebrates nic toxicity)	Exposure time: Test Type: sem Test substance	i-static test
aquat	n: ity to daphnia and other ic invertebrates nic toxicity)	Exposure time: Test Type: sem Test substance	i-static test
		NOEC (Daphnia Exposure time: Test substance	
M-Fac toxicit	ctor (Chronic aquatic y)	: No data availab	le
	oonents:		
	enol A epoxy resin: ity to bacteria	: IC50 (activated Exposure time: Test Type: stati Test substance	c test
	edioldiglycidyl ether: ity to bacteria	Exposure time: Test Type: stati Test substance	c test
	ol, 4-nonyl-, branched: ity to bacteria	Exposure time: Test Type: stati Test substance	c test
diuror Toxici	n: ity to bacteria	: EC50 (activated	d sludge): 3,080 mg/l



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rsion	Revision Date: 06/01/2016	SDS Number: 400001018109	Date of last issue: - Date of first issue: 06/01/2016
		Exposure time: Test Type: stat Test substance Method: OECD	ic test
-	ponents:		
	ol, 4-nonyl-, branched: ity to soil dwelling iisms	: EC10: 3.44 mg Exposure time:	
		EC50 (Other): 9 Exposure time: Test substance	4 Weeks
diuror Toxic organ	ity to soil dwelling	: LC50 (Eisenia Exposure time:	fetida (earthworms)): > 1,000 mg/kg 336 h
		Remarks: see	user defined free text
Plant	toxicity	: No data availat	ble
Sedin	nent toxicity	: No data availat	ble
Phen	<u>ponents:</u> ol, 4-nonyl-, branched: ity to terrestrial iisms	: EC10: 63.2 mg Exposure time: Test substance	672 h
	exicology Assessment aquatic toxicity	: No data availat	ble
Chror	nic aquatic toxicity	: No data availat	ble
Toxic	ity Data on Soil	: No data availat	ble
	organisms relevant to nvironment	: No data availat	ble
	er information: ata available		
Persi	stence and degradabil	ity	
Com	ponents:		
	enol A epoxy resin: gradability	Concentration:	dily biodegradable. :5 % 28 d



Method: OECD Test Guideline 301F

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	edioldiglycidyl ether: gradability	Biodegradation: Exposure time: 2	20 mg/l lily biodegradable. 43 %
Phenol, 4-nonyl-, branched: Biodegradability		Biodegradation: Exposure time: 3	13 mg/l ly biodegradable. ca. 48.2 %
		Biodegradation: Exposure time:	2 ly biodegradable. 100 %
		Inoculum: Marin Concentration: 1 Biodegradation: Exposure time: 4 Method: OECD	11 50 %
	hoxy(methyl)silane: gradability	: Inoculum: activa Concentration: 1 Result: Not read Biodegradation: Exposure time: 2	11.2 mg/l lily biodegradable. 54 %
diuror Biode	n: gradability	Biodegradation: Exposure time: 2	30 mg/l lily biodegradable. 0 %
		Result: Inherent	ly biodegradable.
			ly biodegradable.
	emical Oxygen and (BOD)	: No data availabl	e
Cherr (COD	nical Oxygen Demand)	: No data availabl	e
BOD/	COD	: No data availabl	e



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ThOE)	: No data ava	lable
BOD/	ThOD	: No data ava	lable
Disso (DOC	lved organic carbon	: No data ava	lable
	co-chemical vability	: No data ava	ilable
Stabil	ity in water	: No data ava	lable
Photo	odegradation	: No data ava	lable
Impac Treat	ct on Sewage ment	: No data ava	ilable
Bioad	cumulative potential		
<u>Com</u>	oonents:		
	enol A epoxy resin: cumulation		ation factor (BCF): 31 bes not bioaccumulate.
	ol, 4-nonyl-, branched: cumulation	Bioconcentra	oomis macrochirus (Bluegill sunfish) ation factor (BCF): 231 bes not bioaccumulate.
		Bioconcentra	nephales promelas (fathead minnow) ation factor (BCF): 740 oaccumulation is unlikely.
diuror Bioac	n: cumulation		ner ation factor (BCF): 5.2 oaccumulation is unlikely.
Com	oonents:		
Partiti	enol A epoxy resin: ion coefficient: n- ol/water	: log Pow: 3.2 pH: 7.1 Method: OE	42 (25 °C) CD Test Guideline 117
Partiti	nedioldiglycidyl ether: ion coefficient: n- ol/water	: log Pow: -0.: pH: 6.7 Method: OE	269 (25 °C) CD Test Guideline 117
Partiti	ol, 4-nonyl-, branched: ion coefficient: n- ol/water	: log Pow: 5.4 pH: 5.7 Method: OE	(23 °C) CD Test Guideline 117





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trimethoxy(methyl)silane: Partition coefficient: n- octanol/water diuron: Partition coefficient: n- octanol/water		:	log Pow: 0.7 (20 pH: 7 Method: QSAR	°C)	
		:	log Pow: 2.89 (20 pH: 7.01 Method: OECD T) °C) est Guideline 107	
				log Pow: 2.82 (20) °C)
	Mobilit	y in soil			
	Mobility	/	:	No data available	
	Compo	onents:			
	Bisphe Distribu environ	nol A epoxy resin: ution among mental compartments	:	Koc: 445	
Butanedioldiglycidyl ether: Distribution among environmental compartmer Phenol, 4-nonyl-, branchec Distribution among environmental compartmer diuron:	ution among mental compartments	: Koc: 12.59Method: OECD Test Guideline 121			
	ution among mental compartments	:	Koc: 23000 - 489	000	
Distribution among environmental compartments Stability in soil		: Koc: 293 - 504Method: OECD Test Guideline 106			
		:	: No data available		
	Other a	adverse effects			
		nmental fate and	:	No data available	
	Results assess	s of PBT and vPvB ment	:	No data available	
	Endocr potentia	ine disrupting al	:	No data available	
		ed organic bound ns (AOX)	:	No data available	
	Hazard	lous to the ozone lay	er		
	Ozone	e-Depletion Potential		Not applicable	
	trimeth	onents: oxy(methyl)silane: nal ecological	:	There is no data a	available for this product.

: No data available

Global warming potential

information







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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Can be landfilled or incinerated, when in compliance with local regulations. Where possible recycling is preferred to disposal or incineration. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulation

TDG	N 0077	
UN number Proper shipping name	.O.S.	ZARDOUS SUBSTANCE, SOLID,
Olaas	BISPHENOL A EPOXY	RESIN)
Packing group		
Labels		
ΙΑΤΑ		
UN/ID No.	N 3077	
Proper shipping name		is substance, solid, n.o.s.
	BISPHENOL A EPOXY	
Class		
Packing group		
Labels	iscellaneous	
Packing instruction (cargo aircraft)	56	
Packing instruction	56	
(passenger aircraft)		
IMDG		
UN number	N 3077	
Proper shipping name		ZARDOUS SUBSTANCE, SOLID,
	.O.S.	
Class	BISPHENOL A EPOXY	RESIN)
Packing group		
Labels		



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	Code e pollutant	:F-A, S-F :yes	
	sport in bulk accord	-	RPOL 73/78 and the IBC Code
Natio	nal Regulations		
	umber er shipping name	N.O.S.	ITALLY HAZARDOUS SUBSTANCE, SOLID, A EPOXY RESIN)
Labe ERG	ing group	: 9 : III : 9 : 171	DL A EPOXY RESIN)

SECTION 15. REGULATORY INFORMATION

The components of this product are reported in the following inventories:			
CH INV	The formulation contains substances listed on the Swiss Inventory, On the inventory, or in compliance with the inventory		
TSCA	: On the inventory, or in compliance with the inventory		
DSL	: All components of this product are on the Canadian DSL		
AICS	: On the inventory, or in compliance with the inventory		
NZIoC	: Not in compliance with the inventory		
ENCS	: Not in compliance with the inventory		
	: On the inventory, or in compliance with the inventory		
	: On the inventory, or in compliance with the inventory		
IECSC	: On the inventory, or in compliance with the inventory		
TCSI	: Not in compliance with the inventory		

Inventories

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

Canada. CEPA 1999 Significant New Activity (SNAc) List

No substances are subject to a Significant New Activity Notification.



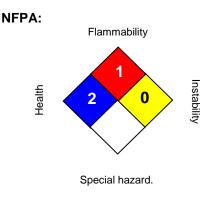
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SECTION 16. OTHER INFORMATION

Further information



HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

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: 06/01/2016

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