

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/20/2024 Version: 1.0

SECTION 1 Identification	
1.1. Product identifier	
Product form Product name	: Mixture : HFP 1:1 Part A
1.2. Other means of identification	
No additional information available	
1.3. Recommended use of the chemical and	l restrictions on use
No additional information available	
1.4. Supplier's details	
Echem 4102 El Rey Road SE Albuquerque, New Mexico United States T (505) 832-3667 - F (505) 217-3721 https://e-chem.net/	
1.5. Emergency phone number	
Emergency number	 1-800-424-9300 For Chemical Emergency Call Chemtrec 24hr/day 7days/week Within USA and Canada: 1-800-424-9300 Outside USA and Canada: 703-527-3887 (collect calls accepted)

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351	Suspected of causing cancer.
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410	Very toxic to aquatic life with long lasting effects.
Full text of H statements : see section 16		

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)

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



: Warning

:

- : H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation

H351 - Suspected of causing cancer.

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	H400 - Very toxic to aquatic life
	H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS US)	: P201 - Obtain special instructions before use.
	P202 - Do not handle until all safety precautions have been read and understood.
	P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P272 - Contaminated work clothing must not be allowed out of the workplace.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing
	protection.
	P302+P352 - If on skin: Wash with plenty of water.
	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.
	P321 - Specific treatment (see supplemental first aid instruction on this label).
	P332+P313 - If skin irritation occurs: Get medical advice or attention.
	P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
	P337+P313 - If eye irritation persists: Get medical advice or attention.
	P362+P364 - Take off contaminated clothing and wash it before reuse.
	P363 - Take off immediately all contaminated clothing and wash it before reuse.
	P391 - Collect spillage.
	P405 - Store locked up.
	P501 - Dispose of contents and/or container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

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	< 100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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Name	Product identifier	%	GHS US classification
naphthalene	CAS-No.: 91-20-3	< 1	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Eye Irrit. 2B, H320 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

SECTION 4 First aid measures				
4.1. Description of necessary first-aid measures				
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	 IF exposed or concerned: Get medical advice/attention. Remove person to fresh air and keep comfortable for breathing. 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 First-aid measures after ingestion	 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. Call a poison center/doctor/physician if you feel unwell. 			
4.2. Most important symptoms/effects, acute and delayed				
Symptoms/effects after skin contact Symptoms/effects after eye contact	Irritation. May cause an allergic skin reaction.Eye irritation.			
4.3. Indication of immediate medical attention and special treatment needed, if necessary				
Other medical advice or treatment	: 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 measures			
6.1. Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel			
Emergency procedures	 Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. 		

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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".
Environmental precautions	: Avoid release to the environment.
6.2. Methods and materials for c	ontainment and cleaning up
For containment	: Collect spillage.
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.

For further information refer to section 13

uctions before use. Do not handle ar personal protective equipment s/mist/vapors/spray.
clothing should not be allowed s product. Always wash hands
С

Storage conditions

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

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls				
	good ventilation of the work station. elease to the environment.			
8.3. Individual protection measures, such as persona	8.3. Individual protection measures, such as personal protective equipment			
Hand protection:				
Protective gloves				
Eye protection:				
Safety glasses				
Skin and body protection:				
Wear suitable protective clothing				
Respiratory protection:				
In case of insufficient ventilation, wear suitable respiratory equipment				

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Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties			
9.1. Basic physical and chemical properties			
Physical state	:	Liquid	
Color		Mixture contains one or more component(s) which have the following colour(s): Yellow-brown Colourless	
Odor		There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Mild odour Aromatic odour	
Odor threshold	:	No data available	
рН	:	No data available	
Melting point	:	Not applicable	
Freezing point	:	No data available	
Boiling point	:	No data available	
Flash point	:	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	
Explosion limits	:	No data available	
Particle characteristics	:	No data available	
Bisphenol A diglycidyl ether resin			
Particle characteristics		No data available	
nanhthalana			
naphthalene			

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article characteristics	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

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.

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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) :	Not classified Not classified Not classified
Bisphenol A diglycidyl ether resin (1675-54-3)
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
naphthalene (91-20-3)	
ATE US (oral)	500 mg/kg body weight
Skin corrosion/irritation :	Causes skin irritation.
Bisphenol A diglycidyl ether resin (1675-54-3)
рН	No data available in the literature
Serious eye damage/irritation :	Causes serious eye irritation.
Bisphenol A diglycidyl ether resin (1675-54-3)
рН	No data available in the literature
	May cause an allergic skin reaction. Not classified
Carcinogenicity :	Suspected of causing cancer.
Bisphenol A diglycidyl ether resin (1675-54-3)
IARC group	3 - Not classifiable
Reproductive toxicity :	Not classified

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STOT-single exposure :	Not classified
naphthalene (91-20-3)	
STOT-single exposure	Causes damage to organs.
STOT-repeated exposure :	Not classified
naphthalene (91-20-3)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard :	Not classified
HFP 1:1 Part A	
Viscosity, kinematic	No data available
Bisphenol A diglycidyl ether resin (1675-54-3)	
Viscosity, kinematic	No data available in the literature
naphthalene (91-20-3)	·
Viscosity, kinematic	No data available
	Irritation. May cause an allergic skin reaction. Eye irritation.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general Hazardous to the aquatic environment, short–term	Very toxic to aquatic life with long lasting effects.Not classified
(acute) Hazardous to the aquatic environment, long–term (chronic)	: Not classified
Bisphenol A diglycidyl ether resin (1675-54-3)	
EC50 - Crustacea [1]	1.7 mg/l

12.2. Persistence and degradability

HFP 1:1 Part A		
Persistence and degradability	Not rapidly degradable	
Bisphenol A diglycidyl ether resin (1675-54-3)		
Persistence and degradability	Not readily biodegradable in water.	
naphthalene (91-20-3)		
Persistence and degradability	Not rapidly degradable	
12.3. Bioaccumulative potential		
Bisphenol A diglycidyl ether resin (1675-54-3)		
BCF - Other aquatic organisms [1]	31 (QSAR, Fresh weight)	

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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.
12.5. Other adverse effects	
	Not classified No

SECTION 13 Disposal considerations

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

DOT	TDG	IMDG	ΙΑΤΑ
14.1. UN number			
Not regulated	UN3082	3082	3082
14.2. Proper Shipping Name)		
Not regulated	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A diglycidyl ether resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A diglycidyl ether resin)	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A diglycidyl ether resin)
14.3. Transport hazard clas	s(es)		
Not regulated	9	9	9
14.4. Packing group			
Not regulated	III	III	III
14.5. Environmental hazard	S		
Not regulated	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information av	ailable		

14.6. Transport in bulk

Not applicable

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14.7. Special precautions for user

Explosive Limit and Limited Quantity Index

Emergency Response Guide (ERG) Number

Excepted quantities (TDG)

DOT

Not regulated

TDG

UN-No. (TDG) **TDG Special Provisions**

- : UN3082
- : 16 (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers 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). 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).

(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

(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.

(3) Despite subsection (1), the technical name for the following dangerous goods is not required 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 offered for transport, handled or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means of containment and during transport.

(2) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport 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 release of the dangerous goods that could endanger public safety.

- 5 L
- : E1
- : : 171

IMDG Special provision (IMDG) : 274, 335, 969 Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : LP01, P001 Packing instructions (IMDG) : PP1 Packing provisions (IMDG) IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1. TP29 : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE EmS-No. (Fire) EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS Stowage category (IMDG) : A ΙΑΤΑ : A97, A158, A197, A215 Special provision (IATA) PCA Excepted quantities (IATA) : E1

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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
ERG code (IATA) :	9L

SECTION 15 Regulatory information

15.1. 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, except for:		
naphthalene	CAS-No. 91-20-3	< 1%
15.2. International regulations		

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

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. 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	Full text of hazard classes and H-statements	
H228	Flammable solid	
H302	Harmful if swallowed	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H320	Causes eye irritation	
H351	Suspected of causing cancer.	
H370	Causes damage to organs.	
H372	Causes damage to organs through prolonged or repeated exposure	
H400	Very toxic to aquatic life	

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Full text of hazard classes and H-statements	
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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.