

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/4/2008 Revision date: 8/5/2022 Supersedes: 5/5/2020 Version: 9.3

## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Name : Magnolia 97-1-A

Product code : 97-1-A

## 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Adhesives, sealants

Industrial use Epoxy resin

Recommended use : Adhesives, sealants

## 1.3. Supplier

#### Manufacturer

Magnolia Advanced Materials, Inc. 4360 Northeast Expressway Atlanta, GA, 30340 USA

T 770-451-2777 [8:00 am - 4:30 pm US eastern time zone] SDS@magnolia-adv-mat.com - www.magnolia-adv-mat.com

#### 1.4. Emergency telephone number

Emergency number : INFOTRAC 1-352-323-3500 (International) | 1-800-535-5053 (North America) | Account 79439

## **SECTION 2: Hazard(s) 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 1A H350 May cause cancer

Specific target organ toxicity (repeated exposure) Category 2 H373 May cause damage to organs through prolonged or repeated

exposure

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) : Danger

Hazard statements (GHS US) : H315 - Causes skin irritation

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

H350 - May cause cancer

H373 - May cause damage to organs through prolonged or repeated exposure

8/5/2022 (Revision date) US - en 1/12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Precautionary statements (GHS US)

: P260 - Do not breathe fume.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves.

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

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.

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

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

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

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Silica, quartz	CAS-No.: 14808-60-7	35-45	Carc. 1A, H350 STOT RE 2, H373
Epoxy phenol novolac resin	CAS-No.: 28064-14-4	10-20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Epoxy Resin	CAS-No.: 25068-38-6	10-20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Neopentyl Glycol Diglycidyl Ether	CAS-No.: 17557-23-2	5-15	Skin Irrit. 2, H315 Skin Sens. 1, H317

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

First-aid measures after inhalation

: Get medical advice/attention if you feel unwell.

First-aid measures after skin contact

: 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:

First-aid measures after eye contact

Get medical advice/attention.

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.

8/5/2022 (Revision date) US - en 2/12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

#### 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, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin

and eyes.

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 and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

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. Do not breathe dust/fume/gas/mist/vapors/spray.

Avoid contact with skin and eyes. Wear personal protective equipment.

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.

8/5/2022 (Revision date) US - en 3/12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Storage conditions : 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

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

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

#### Hand protection:

nitrile rubber gloves

#### 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 and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: Paste.Color: Gray

Odor slightly ethereal Odor threshold : No data available : No data available рΗ Melting point : Not applicable Freezing point : No data available Boiling point : > 107.3 °C Flash point : > 93.4 °C Relative evaporation rate (butyl acetate=1) : 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 : ≈ 1.65

Solubility : No data available

8/5/2022 (Revision date) US - en 4/12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 : No data available Viscosity, dynamic **Explosion limits** : No data available : No data available Explosive properties Oxidizing properties : No data available

#### 9.2. Other information

VOC content : Negligible

## **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 (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

LD50 oral rat 4500 mg/s	/kg (Rat, Literature study, Oral)
LD50 dermal rat > 2100 m	g/kg body weight (Rat, Literature study, Dermal)

 Skin corrosion/irritation
 : Causes skin irritation.

 Serious eye damage/irritation
 : Causes serious eye irritation.

 Respiratory or skin sensitization
 : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.

#### Silica, quartz (14808-60-7)

IARC group	1 - Carcinogenic to humans

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Silica, quartz (14808-60-7)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

## **Epoxy Resin (25068-38-6)**

ErC50 algae 11 mg/l (EPA 660/3 - 75/009, 72 h, Scenedesmus sp., Static system, Fresh water,

Experimental value)

## Neopentyl Glycol Diglycidyl Ether (17557-23-2)

3313	,
LC50 - Fish [1]	100 mg/l (96 h, Pisces, QSAR)
	39 – 57 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)

#### 12.2. Persistence and degradability

Cil	00	CHILD		/4 A	ON	0 6	0-7)	
ЭШ	Ld.	uuc	11 LZ	114	ou	o-o	U-/I	

Persistence and degradability

Biodegradability: not applicable.

Chemical oxygen demand (COD) Not applicable (inorganic)

ThOD Not applicable (inorganic)

#### Epoxy phenol novolac resin (28064-14-4)

Persistence and degradability Biodegradability in soil: no data available.

## **Epoxy Resin (25068-38-6)**

Persistence and degradability

Not readily biodegradable in water.

#### **Neopentyl Glycol Diglycidyl Ether (17557-23-2)**

Persistence and degradability Readily biodegradable in water.

## 12.3. Bioaccumulative potential

#### Silica, quartz (14808-60-7)

Bioaccumulative potential No bioaccumulation data available.

## Epoxy phenol novolac resin (28064-14-4)

Bioaccumulative potential No bioaccumulation data available.

#### **Epoxy Resin (25068-38-6)**

BCF - Other aquatic organisms [1] 31 (Estimated value, Fresh weight)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Epoxy Resin (25068-38-6)		
Partition coefficient n-octanol/water (Log Pow)	3 (Estimated value, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Neopentyl Glycol Diglycidyl Ether (17557-23-2)		
Partition coefficient n-octanol/water (Log Pow)	0.47 (QSAR, KOWWIN, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

## 12.4. Mobility in soil

Silica, quartz (14808-60-7)		
Surface tension	No data available in the literature	
Ecology - soil	Low potential for mobility in soil.	
Epoxy Resin (25068-38-6)		
Surface tension	59 mN/m (20 °C, 0.09 g/l)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)	
Ecology - soil	Low potential for adsorption in soil.	
Neopentyl Glycol Diglycidyl Ether (17557-23-2)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.22 (log Koc, QSAR)	
Ecology - soil	Highly mobile 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

DOT NA No : UN3082 UN-No. (TDG) : Not applicable UN-No. (IMDG) : 3082

UN-No. (IMDG) : 3082 UN-No. (IATA) : 3082

## 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s. (Epoxy resin)

Proper Shipping Name (TDG) : Not applicable

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)

Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

Transport document description (DOT) : UN3082 Environmentally hazardous substances, liquid, n.o.s. (Epoxy resin), 9, III

8/5/2022 (Revision date) US - en 7/12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin), 9, Transport document description (IMDG)

Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin), 9, III

## 14.3. Transport hazard class(es)

#### DOT

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



#### **TDG**

Transport hazard class(es) (TDG) : Not applicable

#### **IMDG**

Transport hazard class(es) (IMDG) : 9

Hazard labels (IMDG)



#### IATA

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

## 14.4. Packing group

Packing group (DOT) : III

Packing group (TDG) : Not applicable

: III Packing group (IMDG) : III Packing group (IATA)

#### 14.5. Environmental hazards

Other information : No supplementary information available.

## 14.6. Special precautions for user

UN-No.(DOT) : UN3082

8/5/2022 (Revision date) US - en 8/12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)

: 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.

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)

CFR 1/3.2/)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

**DOT Vessel Stowage Location** 

: No limit

passenger vessel.

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

TDG

Emergency Response Guide (ERG) Number : 171

**IMDG** 

Special provision (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L

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

**IATA** 

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

8/5/2022 (Revision date) US - en 9/12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provision (IATA) : A97, A158, A197, A215

ERG code (IATA) : 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**

#### Silica, quartz (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

#### Epoxy phenol novolac resin (28064-14-4)

Listed on the Canadian DSL (Domestic Substances List)

#### **Epoxy Resin (25068-38-6)**

Listed on the Canadian DSL (Domestic Substances List)

## **Neopentyl Glycol Diglycidyl Ether (17557-23-2)**

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### Silica, quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

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

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Component	State or local regulations
Silica, quartz(14808-60-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

## **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 08/05/2022

Other information : © 2020 Magnolia Advanced Materials Inc. All rights reserved.

Full text of H-phrases		
H315	Causes skin irritation	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation	
H350	May cause cancer	
H373	May cause damage to organs through prolonged or repeated exposure	
H411	Toxic to aquatic life with long lasting effects	

Abbreviation	s and acronyms
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Abbreviations	Abbreviations and acronyms		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disrupting properties		

Safety Data Sheet (SDS), USA

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

© 2018 Magnolia Advanced Materials Inc. All rights reserved.



## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/4/2008 Revision date: 8/5/2022 Supersedes: 5/5/2020 Version: 9.3

## **SECTION 1: Identification**

## 1.1. Identification

Product form : Mixture

Name : Magnolia 97-1-B

Product code : 97-1-B

## 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Adhesives, sealants

Industrial use

Epoxy resin: hardener

Recommended use : Adhesives, sealants

## 1.3. Supplier

#### Manufacturer

Magnolia Advanced Materials, Inc. 4360 Northeast Expressway Atlanta, GA , 30340

USA

T 770-451-2777 [8:00 am - 4:30 pm US eastern time zone] SDS@magnolia-adv-mat.com - www.magnolia-adv-mat.com

#### 1.4. Emergency telephone number

Emergency number : INFOTRAC 1-352-323-3500 (International) | 1-800-535-5053 (North America) | Account 79439

## **SECTION 2: Hazard(s) identification**

## 2.1. Classification of the substance or mixture

#### **GHS US classification**

Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Acute toxicity (dermal) Category 4	H312	Harmful in contact with skin
Skin corrosion/irritation Category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Germ cell mutagenicity Category 2	H341	Suspected of causing genetic defects
Carcinogenicity Category 2	H351	Suspected of causing cancer.
Specific target organ toxicity — Single exposure, Category 3,	H335	May cause respiratory irritation
Respiratory tract irritation		
Specific target organ toxicity (repeated exposure) Category 2	H373	May cause damage to organs through prolonged or repeated

Full text of H statements : see section 16

## 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)







exposure

Signal word (GHS US) : Danger

Precautionary statements (GHS US)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hazard statements (GHS US) : H302+H312 - Harmful if swallowed or in contact with skin

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H341 - Suspected of causing genetic defects

H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged or repeated exposure

: P260 - Do not breathe fume.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

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

## 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Curing agent	CAS-No.: 1761-71-3	45-55	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373
	CAS-No.: 111-40-0	20-30	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS US classification
	CAS-No.: 2426-08-6	1-5	Flam. Liq. 3, H226 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 STOT SE 3, H335
	CAS-No.: 108-95-2	1-5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Muta. 2, H341 STOT RE 2, H373

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. Call a poison

center/doctor/physician if you feel unwell.

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 effects (acute and delayed)

Symptoms/effects after inhalation : May cause respiratory irritation.

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.

8/5/2022 (Revision date) US - en 3/14

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin

and eyes.

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 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.

#### 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 : Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wear personal protective equipment. Do not breathe

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid contact

with skin and eyes.

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.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

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

## 8.1. Control parameters

No additional information available

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

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

#### Hand protection:

nitrile rubber gloves. protective gloves

8/5/2022 (Revision date) US - en 4/14

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

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 : Clear, amber colored

Odor : Amine-like

Odor threshold : No data available pH : No data available Melting point : Not applicable Freezing point : No data available

Boiling point : > 107.3 °C Flash point : > 93.4 °C

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 :  $\approx 0.95$ 

Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available : No data available Auto-ignition temperature 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

VOC content : Negligible

## **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.

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 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

Reproductive toxicity

STOT-single exposure

## 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. I	Information o	n toxico	logical	effects

Acute toxicity (oral)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Harmful in contact with skin.

Acute toxicity (inhalation) :	Not classified
Magnolia 97-1-B	
ATE US (oral)	534.611 mg/kg body weight
ATE US (dermal)	1968.832 mg/kg body weight
Curing agent (1761-71-3)	
LD50 oral rat	380 mg/kg (EPA OPP 81-1: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	2110 mg/kg body weight (EPA OPP 81-2, 24 h, Rabbit, Male / female, Experimental value, Dermal)
(111-40-0)	
LD50 oral rat	1080 mg/kg body weight (Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	1090 mg/kg body weight (Rabbit, Experimental value, Dermal)
LC50 Inhalation - Rat	92.1 mg/m³
(2426-08-6)	
LD50 dermal rabbit	778 mg/kg body weight (24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat [ppm]	1030 ppm (8 h, Rat, Male, Experimental value, Inhalation (vapours))
Skin corrosion/irritation :	Causes severe skin burns.
Serious eye damage/irritation :	Causes serious eye damage.
Respiratory or skin sensitization :	May cause an allergic skin reaction.
Germ cell mutagenicity :	Suspected of causing genetic defects.
Carcinogenicity :	Suspected of causing cancer.
(2426-08-6)	
IARC group	2B - Possibly carcinogenic to humans
(108-95-2)	
IARC group	3 - Not classifiable
	1

8/5/2022 (Revision date) US - en 6/14

: May cause respiratory irritation.

: Not classified

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

(111-40-0)	
STOT-single exposure	May cause respiratory irritation.
(2426-08-6)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure :	May cause damage to organs through prolonged or repeated exposure.
Curing agent (1761-71-3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
(108-95-2)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
	Not classified
Viscosity, kinematic :	No data available
Symptoms/effects after inhalation :	May cause respiratory irritation.
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.

## SECTION 12: Ecological information

12.1.	Toxicity	

Ecology - general	: Toxic to aquatic life with long lasting effects.	

Curing agent (1761-71-3)	
LC50 - Fish [1]	68 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	6.84 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	140 – 200 mg/l (DIN 38412-9, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
(111-40-0)	
LC50 - Fish [1]	248 mg/l
EC50 - Crustacea [1]	16 mg/l
ErC50 algae	1164 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, Static system, Fresh water, Experimental value, GLP)
NOEC chronic crustacea	5.6 mg/l
(2426-08-6)	
LC50 - Fish [1]	65 mg/l (96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	2 mg/l
ErC50 algae	35 mg/l (96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
(108-95-2)	
LC50 - Fish [1]	5 – 12 mg/l (96 h, Salmo gairdneri, Pure substance)
EC50 - Crustacea [1]	7.83 mg/l

8/5/2022 (Revision date) US - en 7/14

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

(108-95-2)	
NOEC chronic fish	0.75 mg/l

## 12.2. Persistence and degradability

Curing agent (1761-71-3)	
Persistence and degradability	Not readily biodegradable in water.
(111-40-0)	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.
(2426-08-6)	
Persistence and degradability	Not readily biodegradable in water.
(108-95-2)	
Persistence and degradability	Biodegradable in the soil. Inhibits biodegradation processes in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.68 g O₂/g substance
Chemical oxygen demand (COD)	2.28 g O <sub>2</sub> /g substance
ThOD	2.38 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.71

## 12.3. Bioaccumulative potential

Curing agent (1761-71-3)		
BCF - Fish [1]	< 60 (OECD 305: Bioconcentration: Flow-Through Fish Test, 60 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP)	
Partition coefficient n-octanol/water (Log Pow)	2.03 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
(111-40-0)		
BCF - Fish [1]	0.3 – 6.3 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	-1.58 (Calculated, 20 °C)	
Bioaccumulative potential	Not bioaccumulative.	
(2426-08-6)		
Partition coefficient n-octanol/water (Log Pow)	0.63 (Literature)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
(108-95-2)		
BCF - Fish [1]	1276 – 1496 (Pimephales promelas, Pure substance)	
BCF - Fish [2]	20 (Leuciscus idus, Pure substance)	
BCF - Other aquatic organisms [1]	277 (Daphnia magna, Pure substance)	
BCF - Other aquatic organisms [2]	3.5 – 16 (Scenedesmus quadricauda, Pure substance)	
Partition coefficient n-octanol/water (Log Pow)	1.46	

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

(108-95-2)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

#### 12.4. Mobility in soil

Curing agent (1761-71-3)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.25 (log Koc, Other, Calculated value)
Ecology - soil	Low potential for mobility in soil.
(111-40-0)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.4 – 4.6 (log Koc, Other, Experimental value, GLP)
Ecology - soil	Adsorbs into the soil. Low potential for mobility in soil. Soil contaminant.
(2426-08-6)	
Surface tension	No data available (test not performed)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.092 – 1.167 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
(108-95-2)	
Ecology - soil	No (test)data on mobility of the component(s) available.

#### 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

DOT NA No : UN3267
UN-No. (TDG) : Not applicable
UN-No. (IMDG) : 3267
UN-No. (IATA) : 3267

## 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Corrosive liquid, basic, organic, n.o.s. (DIETHYLENETRIAMINE SOLUTION,

METHYLENEBISCYCLOHEXANAMINE SOLUTION)

Proper Shipping Name (TDG) : Not applicable

Proper Shipping Name (IMDG) : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (DIETHYLENETRIAMINE SOLUTION,

METHYLENEBISCYCLOHEXANAMINE SOLUTION)

Proper Shipping Name (IATA) : Corrosive liquid, basic, organic, n.o.s. (DIETHYLENETRIAMINE SOLUTION,

METHYLENEBISCYCLOHEXANAMINE SOLUTION)

8/5/2022 (Revision date) US - en 9/14

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Transport document description (DOT) : UN3267 Corrosive liquid, basic, organic, n.o.s. (DIETHYLENETRIAMINE SOLUTION,

METHYLENEBISCYCLOHEXANAMINE SOLUTION), 8, III

Transport document description (IMDG) : UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (DIETHYLENETRIAMINE

SOLUTION, METHYLENEBISCYCLOHEXANAMINE SOLUTION), 8, III

Transport document description (IATA) : UN 3267 Corrosive liquid, basic, organic, n.o.s. (DIETHYLENETRIAMINE SOLUTION,

METHYLENEBISCYCLOHEXANAMINE SOLUTION), 8, III

#### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : 8
Hazard labels (DOT) : 8



**TDG** 

Transport hazard class(es) (TDG) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : 8
Hazard labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



## 14.4. Packing group

Packing group (DOT) : III

Packing group (TDG) : Not applicable

Packing group (IMDG) : III
Packing group (IATA) : III

## 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

DOT

UN-No.(DOT) : UN3267

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)

: 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).

T7 - 4 178.274(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. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, 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) : 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 : 5 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

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

: 60 I

**TDG** 

Emergency Response Guide (ERG) Number : 153

**IMDG** 

Special provision (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

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

Properties and observations (IMDG) : Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.

IATA

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

8/5/2022 (Revision date) US - en 11/14

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## **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

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

phenol, conc≥10%, aqueous solutions	CAS-No. 108-95-2	1-5%
-------------------------------------	------------------	------

(108-95-2)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ 1000 lb	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form

#### 15.2. International regulations

#### **CANADA**

## (111-40-0)

Listed on the Canadian DSL (Domestic Substances List)

#### (108-95-2)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### (111-40-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### (2426-08-6)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## (108-95-2)

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

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Component	State or local regulations
(111-40-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
(2426-08-6)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
(108-95-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

## **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 08/05/2022

Other information : © 2020 Magnolia Advanced Materials Inc. All rights reserved.

Full text of H-phrases	
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Abbreviations and acronyms	
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Safety Data Sheet (SDS), USA

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

© 2018 Magnolia Advanced Materials Inc. All rights reserved.