

ARTIST HARDENER (PART B)

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: ARTIST HARDENER (PART B)
Common Name: EPOXY RESIN
SDS Number: NP-006
Product Code: 2010-1031-1 (PART B)
Revision Date: 10/9/2018
Chemical Family: EPOXY RESIN
Product Description: ARTIST HARDENER (PART B)
Product Use: Artist materials

Supplier Details: NATURALIS PAINT
999 Lee Street
Elk Grove Villiage, ILL 60007

Emergency: CHEMTREC (800) 424-9300

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Skin sensitization, 1
Health, Specific target organ toxicity - Single exposure, 3
Health, Acute toxicity, 4 Oral
Health, Acute toxicity, 4 Dermal
Health, Serious Eye Damage/Eye Irritation, 1
Health, Specific target organ toxicity - Repeated exposure, 1
Environmental, Hazards to the aquatic environment - Acute, 1
Environmental, Hazards to the aquatic environment - Chronic, 1
Health, Aspiration hazard, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H318 - Causes serious eye damage
H372 - Causes damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H304 - May be fatal if swallowed and enters airways

GHS Precautionary Statements:

- P102 - Keep out of reach of children.
P103 - Read label before use.
P233 - Keep container tightly closed.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash _ thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352 - IF ON SKIN: Wash with soap and water.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P332+313 - If skin irritation occurs: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P370+378 - In case of fire: Use _ for extinction.
P403+235 - Store in a well ventilated place. Keep cool.
P412 - Do not expose to temperatures exceeding 50 °C/122 °F
P501 - Dispose of contents/container to _
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
CGA-MP01 - IF ACCIDENTLY INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention

3

COMPOSITION/INFORMATION OF INGREDIENTS

COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Ingredients:		
CAS#	%	Chemical Name:
*****	.01-.02%	Proprietary
84852-15-3	40.0-50.0%	Phenol, 4-nonyl-, branched
39423-51-3	40.0-50.0%	Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)

4

FIRST AID MEASURES

- Inhalation:** Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
- Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye Contact:** Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
- Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed to do so by a medical personnel. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Flash Point: 100 deg C
Flash Point Method: Pensky-Martens Closed Cup

Suitable extinguishing media: Foam, carbon dioxide (CO₂), dry powder, water spray. Firefighters should wear self-contained breathing apparatus (SCBA). So Not take personal risk or individuals without suitable training.

Pressure may build up in closed container that are exposed to heat and fire.
Hazardous thermal decomposition; Carbon monoxide, carbon dioxide, aldehydes

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media: Water spray. Polyvalent foam. BC powder. Carbon dioxide. Sand/earth.

Unsuitable extinguishing media: Solid water jet ineffective as extinguishing medium.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire hazard: DIRECT FIRE HAZARD. Not easily combustible. INDIRECT FIRE HAZARD.

Temperature above flashpoint: higher fire/explosion hazard: see "Reactivity Hazard".

Explosion hazard: INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Relativity Hazard".

Reactivity: Polymerizes on exposure to temperature rise. Upon combustion: CO and CO₂ are formed. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Violent exothermic reaction with (some) acids/bases. May polymerize on exposure to amines: pressure rise and possible bursting of container.

5.3 ADVICE FOR FIREIGHTERS

Precautionary measures fire:

Exposure to fire/heat: Keep upwind.

Exposure to fire/heat: Consider evacuation.

Exposure to fire/heat: Have neighborhood close doors and windows.

Firefighting instructions: Cool containers with water spray/remove them into safety. Do not move the load if exposed to heat. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

Protection during firefighting:

Heat/fire exposure: Compressed air/oxygen apparatus.

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

6.2 Environmental precautions:

Do Not Allow to enter drains or waterways.

Do not discharge into the soil/ground.

6.3 Methods and material for containment and cleaning up:

Ventilate the area, Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Use only non-sparking tools. Take up with absorbent material (eg. sand, universal binder). Clean contaminated floors and objects thoroughly while observing environmental regulations. Dispose of absorbed material in accordance with the regulations, State and Federal.

Handling Precautions:

7.1 Safe Handling

Advice on safe handling:

No special measure necessary if stored and handled as prescribed.

Use only in well-ventilated areas. In case of insufficient ventilation wear suitable respiratory equipment.

Wear respiratory protection when spraying.

No sparking tools should be used.

To avoid ignition of vapor by static electricity discharge, all metal parts of the equipment must be grounded.

Keep away from acids and other incompatibles. Keep containers closed when not in use.

Empty containers retain residue (liquid and/or vapor and can be dangerous).

Hygiene measures:

Do not eat, drink or smoke when working.

Wash hands before breaks and after work.

Remove soiled or soaked clothing immediately.

General protective measures:

Avoid contact with eyes and skin

Wear protective gloves and eye/face protection.

Avoid breathing vapor or mist.

Storage: keep away from heat, sparks and open flame. No Smoking!

Do not inhale gases/vapors/aerosols.

Do not discharge to open sewers or drains.

Storage Requirements:

7.2 Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion: Store in cool/well ventilated place. Keep away from heat. Inspect periodically for damage or leaks Protect against physical damage. Keep away from acids, amines, (strong) bases and other incompatibles. Keep containers closed when not in use. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

Storage: Use approved containers Keep container tightly closed. Do not store below <5 C (41 F). Do not keep at temperature above 35C (95 F). Keep in cool area. Do Not store in direct sunlight
KEEP OUT OF THE REACH OF CHILDREN

Engineering Controls:

8.1 Control parameters

Use only in well-ventilated areas. Apply technical measure to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Personal Protective Equipment:

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE/FACE PROTECTION: Full face shield with safety glasses or goggles underneath are required.

SKIN PROTECTION: Wear chemical resistant (impervious) gloves; PVC, neoprene, nitrile rubber, EVAL, butyl rubber. Wear chemical resistant protective clothing. Use good laboratory/ workplace procedures including personal protective clothing: lab coat and protective gloves.

RESPIRATORY PROTECTION: Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS.

GENERAL PROTECTION: Eyewash fountains and safety showers are recommended in the work area

OCCUPATIONAL EXPOSURE LIMITS:

CHEMICAL NAME	CAS NUMBER	ACGIH-TWA	ACGIH-STEL
Nonylphenol	84852-15-3	Not available	Not available
Polyoxypropylenetriamine	39423-51-3	Not available	Not available

9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear	Odor:	Mild odor
Physical State:	Liquid	Molecular Formula:	N/A
Odor Threshold:	Not measured	Solubility:	Non soluble
Spec Grav./Density:	.98 (25 deg C)	Percent Volatile:	None (Zero VOC)
Viscosity:	N/A	Freezing/Melting Pt.:	10 deg C
Boiling Point:	Not available	Flash Point:	116 deg C
Flammability:	Not available	VOC:	0 %
Vapor Pressure:	Not available	Auto-Ignition Temp:	Not available
pH:	N/A	UFL/LFL:	Not available
Evap. Rate:	Not available		

10

STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to Avoid:	Keep away from excessive heat or open flame. Store below maximum storage temperature.
Materials to Avoid:	Strong oxidizing agents; Acids, Bases, caustic soda (sodium hydroxide).
Hazardous Decomposition:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous Polymerization:	Hazardous Polymerization will not occur alone. Reacts with considerable heat release with some curing agents. Polymerises exothermically with amines, mercaptans and Lewis acids at ambient temperature and above.

11

TOXICOLOGICAL INFORMATION

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE: Eyes, skin, inhalation and ingestion.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

EYES: Causes serious eye damage.

SKIN: Causes severe skin burns. May cause allergic skin reaction. May be harmful in contact with skin.

INHALATION: Harmful if inhaled. Exposure to vapors or mists may cause severe irritation and burns of the nose, throat and respiratory tract.

INGESTION: Harmful if swallowed. Ingestion may cause severe irritation and burns of the mouth, throat and digestive tract. May be fatal if swallowed and enters airways.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE: Suspected of damaging fertility or the unborn child.

ACUTE TOXICITY:

CHEMICAL NAME	LC50 INHALATION (RAT)	LD50 ORAL (RAT)	LD50 DERMAL (RABBIT)
Nonylphenol	Not available	1,300 mg/kg	3,160 mg/kg
Polyoxypropylenetriamine	Not available	550 mg/kg	>1,000 mg/kg

CORROSION / IRRITATION / SENSITIZATION INFORMATION:

SKIN CORROSION/IRRITATION: Skin Corrosion - Category 1

SERIOUS EYE DAMAGE/IRRITATION: Eye Damage - Category 1

RESPIRATORY OR SKIN SENSITIZATION: Skin Sensitization - Category 1

CARCINOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICOLOGY INFORMATION:

GERM CELL MUTAGENICITY: Information is not available.

CARCINOGENICITY: Information is not available.

REPRODUCTIVE TOXICITY: Toxic to Reproduction - Category 2

TOXICITY:

CHEMICAL NAME	TEST	SPECIES	RESULT
Nonylphenol	LC50 (96 hrs)	Lepomis macrochirus	0.135 mg/L
	LOEC (96 hrs)	Lepomis macrochirus	0.211 mg/L
	NOEC (96 hrs)	Fathead minnow	0.083 mg/L
Polyoxypropylenetriamine	LC50 (96 hrs)	Fish	>100 mg/L
	EC50 (48 hrs)	Daphnia	13 mg/L
	ErC50 (72 hrs)	Algae	4.4 mg/L

PERSISTENCE AND DEGRADABILITY:

CHEMICAL NAME	TEST	PERIOD	RESULT
Nonylphenol	Not available		
Polyoxypropylenetriamine	OECD*	28 Days	<5%

BIOACCUMULATIVE POTENTIAL:

CHEMICAL NAME	Log	Pow	BCF POTENTIAL
Nonylphenol	3.242	31	Low
Polyoxypropylenetriamine	-1.13	Not available	Low

MOBILITY IN SOIL:

CHEMICAL NAME	SOIL/WATER PARTITION COEFFICIENT (KOC)
Nonylphenol	Not available
Polyoxypropylenetriamine	Not available

OTHER ADVERSE EFFECTS: Additional information is not available

* Derived from OECD 301F (Biodegradation Test)

DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Waste Treatment Methods

This product, when being disposed of in its unused and uncontaminated state should be treated as hazardous waste according to U.S. EPA and/or EC Directive 91/689/EEC. Any disposal practices must be in compliance with all national and State/Provincial laws and a municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water.

UN2735, Limited Quantity for packages less than 30 kg (66lb) an dinner packagings less than 5L (1.3), PG III, (Amines, Liquid, Corrosive, N.O.S. (Polyoxypropylenetriamine), PGIII, (Amines, Liquid, Corrosive, N.O.S., (Polyoxypropylenetriamine), Class 8, Corrosive, PG III)

Land Transport: USDOT: UN1760 Corrosive liquids, n.o.s. (Amines, Liquid, Corrosive, N.O.S. (Polyoxypropylenetriamine), Class 8, Corrosive, PG III

Sea Transport: IMDG: UN1760 Corrosive liquids, n.o.s. (Amines, Liquid, Corrosive, N.O.S. (Polyoxypropylenetriamine), Class 8, Corrosive, PG III

Air Transport: IATA/ICAO: UN1760 Corrosive liquids, n.o.s. (Amines, Liquid, Corrosive, N.O.S. (Polyoxypropylenetriamine), Class 8, Corrosive, PG III

Marine Pollutant: YES

Hazardous Substance (USA): NO

ORM-D Consumer Commodity in 1 Gallon or Less containers

CHEMTREC (800) 424-9300 CCN-



[%] RQ (CAS#) Substance - Reg Codes

[.01-.02%] Proprietary (*****)

[40.0-50.0%] Phenol, 4-nonyl-, branched (84852-15-3) TSCA

[40.0-50.0%] Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-(2-aminomethylethoxy)-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (39423-51-3) TSCA

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

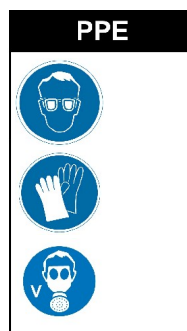
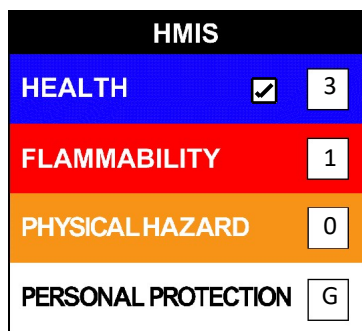
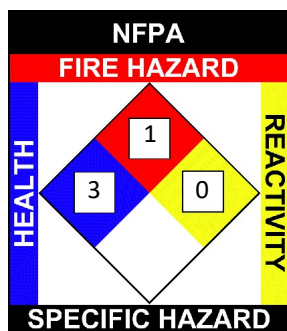
Regulatory Code Legend

TSCA = Toxic Substances Control Act

NFPA: Health = 3, Fire = 1, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 3(Chronic), Fire = 1, Physical Hazard = 0

HMIS PPE: G - Safety Glasses, Gloves, Vapor Respirator



DISCLAIMER:

The user's attention is drawn to the risks brought upon by the misuse of the product. This Safety Data Sheet does not exempt the user from knowing and applying the regulations corresponding to his/her activity. It is his//her own responsibility to take the precautions according to the use of this product.

KEEP THIS and all chemicals OUT OF THE REACH OF CHILDREN !

The information and data contained herein is believed to be accurate at the time of preparation and has been obtained from sources believed to be generally reliable. No Warranty or Liability for the accuracy is made and no Liability will be assumed for claims arising from any party's use of or reliance on information or recommendations contained herein.

No warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this product or information, the safety of this product, or the hazards related to its use. The information and product are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use thereof.

Revision Date: 10/9/2018