

SPI Supplies Division

Structure Probe, Inc.

P.O. Box 656 West Chester, PA 19381-0656 USA

Phone: 1-(610)-436-5400 Fax: 1-(610)-436-5755

sds@2spi.com

<http://www.2spi.com>

Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: September 26, 2016

SPI #02823-AB, 02823-AF, 02823-FA SPI-Chem™
DMP-30 Epoxy Accelerator, DY 064

Component of 02635-AB SPI-Pon™ 812 - Araldite®
6005 Epoxy Embedding Kit
Component of 02649-AB SPI-Chem™ Araldite® 502
Embedding Resin Kit
Component of 02660-AB SPI-Pon™ 812 Embedding
Kit
Component of 02662-AB SPI-Chem™ Quetol™ 651
NSA Resin Kit
Component of 02808-AB Durcupan® ACM Epoxy
Resin Kit
Component of 02809-AB Durcupan® Water Soluble
Epoxy Resin Embedding Kit

Section 1.1: Identification

Chemical Name/Synonyms Tris-2,4,6-(dimethylaminomethyl)phenol; DMP30

Product or Trade Name DMP30

CAS #'s 90-72-2; 71074-89-0

Chemical Formula..... [(CH₃)₂NCH₂]₃C₆H₂OH

Section 1.2: Relevant Uses/Restrictions

Laboratory chemical used as catalyst or accelerator in embedding resins for the microscopy laboratory.

Section 1.3: Supplier of the Safety Data Sheet

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Section 1.4: Emergency telephone number

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-741-5970

Toll-free phone: 1-(800)-424-9300 USA + Canada only

Section 2: Hazard Identification

2.1 Classification of the substance

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion (Category 1C)
Serious Eye Damage (Category 1)
Skin sensitization (Category 1)

2.2 Label elements

Pictogram



Signal Word: Warning

Hazard statements:

H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation

Precautionary statements:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contacts
if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P333+313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/container to be specified in accordance with regulations.

Hazards not otherwise classified:

Corrosive
Components of the product may affect the nervous system
Harmful if swallowed
Harmful in contact with skin

2.3 Other Hazards:

Hazardous Material Information System USA

Health 3
Fire Hazard 1
Reactivity 0
Personal Protection

NFPA Rating (estimated)

Health 3
Flammability..... 1
Reactivity 0

Section 3: Composition

3.1 Substances:

Component	CAS#	EC#	Weight Percent	RTECS
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	202-013-9	<90%	SN3500000
Bis(dimethylaminomethyl)phenol	71074-89-0	275-162-0	<15 %	

Section 4: First Aid Measures

4.1 Description of first aid measures:

General advice: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Eye contact: Hold eyelids apart. Initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

Skin contact: Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing.

Ingestion: Do NOT induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation: Move to fresh air.

Inhalation: No further relevant information available.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

Section 5: Fire Fighting Measures

5.1 **Extinguishing media:** Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical, Dry sand, Limestone powder.

5.2 **Special hazards arising from the substance or mixture:**

Hazardous combustion products: Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

5.3 **Advice for firefighters**

Special protective equipment and precautions for firefighters: Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self-contained breathing apparatus for fire-fighting if necessary.

Further information: Do not allow run-off from fire-fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section 6: Accidental Release Measures

6.1 Personal precautions: Protective measures: Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

6.2 Environmental precautions: Construct a dike to prevent spreading.

6.3 Methods and material for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Additional advice: If possible, stop flow of product.

6.4 Reference to other sections:

See Section 7 for information on handling.

See Section 13 for information on disposal.

Section 7: Handling and Storage

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities: Do not store near acids. Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Keep containers tightly closed in a dry, cool, and well-ventilated place.

Technical measures/Precautions: Do not store in reactive metal containers.

7.3 Specific end uses

Laboratory chemical used as catalyst or accelerator in embedding resins for the microscopy laboratory.

This product is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

Section 8: Exposure Controls and Personal Protection

8.1 Control parameter and Personal Protection

Workplace exposure limits: No information available.

Biological limit values: No information available

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Provide readily accessible eye wash stations and safety showers.

Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

8.2.2 Individual protection measures:

Hand Protection: Impervious gloves – butyl-rubber, nitrile rubber or neoprene.

Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection: Full face shield with goggles underneath.

Skin and body protection: Slicker suit. Impervious clothing. Full rubber suit (rain gear). Rubber or plastic boots.

Special instructions for protection and hygiene: Discard contaminated leather articles. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash hands at the end of each work shift and before eating, smoking or using the toilet. Provide readily assessable eye wash stations and safety showers.

8.2.3 Environmental exposure controls:

Dike spills to prevent spreading to sewers or water courses.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid, light yellow

Odor: Amine-like

Odor threshold: No data available

pH: 11.3

Melting point/Freezing point: -4 °F (-20 °C)

Boiling point/Boiling point range: >212 °F (>100 °C)

Flash Point: 300 °F (148389 °C)

Evaporation rate: No data available

Flammability (solid, gas): Not applicable

Upper/lower flammability or explosive limits: Not applicable

Vapor Pressure: <0.01 mmHg at 70 °F (21 °C)

Relative vapor density: Not applicable

Density: 60.555 lb/ft³ (0.97 g/cm³) at 70 °F (21 °C)

Solubility: 850 g/L in water

Partition coefficient (n-octanol/water): 0.219

auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

9.2 Other information: No further relevant information available.

Section 10: Stability and Reactivity

10.1 Reactivity: No information available.

10.2 Chemical Stability: Stable under normal conditions.

10.3 Possibility of Hazardous Reactions: No data available.

10.4 Conditions to avoid: No information available.

10.5 Incompatible materials:

Organic acids (i.e. acetic acid, citric acid, etc.), Mineral acids, Sodium hypochlorite.

Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Reaction with peroxides may result in violent decomposition of peroxide, possibly creating an explosion.

Oxidizing agents.

10.6 Hazardous decomposition products:

Nitric acid

Ammonia

Nitrogen oxides (NO_x)

Carbon monoxide

Carbon dioxide (CO₂)

Section 11: Toxicological Information

Information on the likely routes of exposure

11.1 Information on toxicological effects:

a. acute toxicity:

LD50: 2,169 mg/kg Species: rat

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Harmful if swallowed.

b. skin corrosion/irritation:

Corrosive to the skin of a rabbit.

Corrosive in an in vitro test.

Causes skin burns. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Harmful in contact with skin.

c. serious eye damage/irritation:

Severe eye irritation.

Corrosive to the eyes of a rabbit.

Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. Exposed individuals may see ring around bright lights. This effect is temporary and has no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the tissue of the eye from atmosphere. Causes eye burns. May cause blindness.

Sensitization: Dermal sensitization to this product or component has been seen in some humans. The results of a test on guinea pigs showed this substance to be a weak skin sensitizer.

- d. **respiratory effects:** If inhaled, can cause severe eye, skin and respiratory tract burns. May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.
- e. **germ cell mutagenicity:** No evidence of mutagenic activity was observed in a bacterial mutation assay. Chromosome Aberration Assay: Negative (Activated and Non-activated)
- f. **reproductive toxicity:** No data available.
- g. **STOT-single exposure:** No data available.
- h. **STOT-repeated exposure:** No data available.
- i. **aspiration hazard:** No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure:

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Sub-chronic exposure of this material or component in test animals has caused abnormalities in the following organ(S): Central nervous system.

Section 12: Ecological Information

12.1 Toxicity

LC50 (24 h): 222 mg/l	Species: Rainbow trout (<i>Oncorhynchus mykiss</i>)
LC100 (96h): 240 mg/l	Species: Rainbow trout (<i>Oncorhynchus mykiss</i>)
LC0 (96h): 180 mg/l	Species: Rainbow trout (<i>Oncorhynchus mykiss</i>)
LC50 (24h): 249 mg/l	Species: Carp (<i>Cyprinus carpio</i>)
LC50 (96 h): 175 mg/l	Species: Carp (<i>Cyprinus carpio</i>)
EC50 (96h): 718 mg/l	Species: Grass shrimp (<i>Palaemonetes</i>)
EC100 (96 h): 1,000 mg/l	Species: Mud crab (<i>Neopanope</i>)
EC0 (96 h): 750 mg/l	Species: Mud crab (<i>Neopanope</i>)
EC50 (72 h): 84 mg/l	Species: <i>Scenedesmus subspicatus</i>
NOEC (72h): 6.25 mg/l	Species: <i>Scenedesmus subspicatus</i>

Toxicity to other organisms: No data available.

12.2 Persistence and degradability: According to the results of tests of biodegradability, this product is not readily biodegradable.

12.3 Bio-accumulative potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No further relevant information available.

Section 13: Disposal Considerations

13.1 Waste treatment methods:

Waste from residues / unused products. Dispose of in accordance with all federal, state, and local requirements.

Contaminated packaging: Dispose of in accordance with all federal, state and local requirements.

Section 14: Transport Information

DOT

UN Number: UN2735
Proper shipping name: Amines, liquid, corrosive, n.o.s. (Tris-2,4,6-(dimethylaminomethyl)phenol
Bis(dimethylaminomethyl)phenol)
Class or Division: 8
Packing group: III
Label(s): 8
Marine Pollutant: no

IATA

UN Number: UN 2735
Proper shipping name: Amines, liquid, corrosive, n.o.s. (Tris-2,4,6-(dimethylaminomethyl)phenol
Bis(dimethylaminomethyl)phenol)
Class of Division: 8
Packing groups: III
Label(s): 8
Marine Pollutant: no

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

Toxic Substance Control Act (TSCA) 12(b) Component(s): None

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification: Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level: None

US California Safe Drinking Water & Toxic Enforcement Act (Proposition 65):

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

Country	Regulatory List	Notification
USA	TSCA	Included on inventory
EU	EINECS	Included on EINECS inventory of polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory
Australia	AICS	Included on Inventory
Japan	ENCS	Included on Inventory
South Korea	ECL	Included on Inventory
China	SEPA	Included on Inventory
Philippines	PICCS	Included on Inventory

15.2 Chemical Safety Assessment

Preparation Date: September 26, 2016

Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio-accumulative and Toxicological
vPvB: very Persistent and very Bio-accumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
STEL: Short Term Exposure Limit

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

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