

# CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.



Product name: FUCHS TIM EPOXY 818

Issue date: March-21-2025

Version #: 01

SDS No: 9017

## SECTION 1 Chemical product and company identification

|                                   |   |                 |
|-----------------------------------|---|-----------------|
| <b>Product Name</b>               | <b>FUCHS TIM EPOXY 818</b>                              |                 |
| <b>Manufacturer/Supplier</b>      | Nye Lubricants, Inc. A Member of the FUCHS Group        |                 |
| <b>Address</b>                    | 12 Howland Road<br>Fairhaven, MA 02719<br>United States |                 |
| <b>Contact person</b>             | Not available.  |                 |
| <b>Telephone</b>                  | +1-508-996-6721   |                 |
| <b>e-mail</b>                     | sds@fuchs.com   |                 |
| <b>Emergency telephone number</b> | Americas  | +1 760 476 3961 |
|                                   | Europe  | +1 760 476 3962 |
|                                   | Asia Pacific  | +1 760 476 3960 |
|                                   | Access code   | 334212          |

### Recommended use and Limitations on use

|                        |                |
|------------------------|----------------|
| <b>Recommended use</b> | Epoxy Adhesive |
| <b>Issue date</b>      | March-21-2025  |

## SECTION 2 Hazards identification

|                           |   |
|---------------------------|---|
| <b>Emergency overview</b> | May cause damage to organs through prolonged or repeated exposure. May cause cancer. Causes serious eye irritation. May cause an allergic skin reaction. May cause reproductive effects. Prolonged exposure may cause chronic effects. Dangerous for the environment if discharged into watercourses. |
|---------------------------|---|

### GHS hazard categories

|                              |  |             |
|------------------------------|--|-------------|
| <b>Physical hazards</b>      | Not classified.  |             |
| <b>Health hazards</b>        | Serious eye damage/eye irritation                      | Category 2A |
|                              | Sensitization, skin                                    | Category 1  |
|                              | Carcinogenicity  | Category 1B |
|                              | Reproductive toxicity                                  | Category 1B |
|                              | Specific target organ toxicity, repeated exposure      | Category 2  |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, acute hazard     | Category 3  |
|                              | Hazardous to the aquatic environment, long-term hazard | Category 3  |

### Label elements

#### Pictograms



#### Signal word

Danger

#### Hazard statement

|      |  |
|------|--|
| H317 | May cause an allergic skin reaction.                               |
| H319 | Causes serious eye irritation.                                     |
| H350 | May cause cancer.  |
| H360 | May damage fertility or the unborn child.                          |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H402 | Harmful to aquatic life.   |
| H412 | Harmful to aquatic life with long lasting effects.                 |

**Precautionary statement****Prevention**

|      |  |
|------|--|
| P201 | Obtain special instructions before use.                                    |
| P202 | Do not handle until all safety precautions have been read and understood.  |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray.                            |
| P264 | Wash thoroughly after handling.  |
| P272 | Contaminated work clothing should not be allowed out of the workplace.     |
| P273 | Avoid release to the environment.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

**Response**

|                    |  |
|--------------------|--|
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and 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.   |
| 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.   |

**Safety storage**

|      |                  |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

**Disposal**

|      |   |
|------|---|
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
|------|---|

**Physical and chemical hazards** The product is stable and non-reactive under normal conditions of use, storage and transport. No unusual fire or explosion hazards noted.

**Health hazards** May cause an allergic skin reaction. Expected to be a low ingestion hazard. Causes serious eye irritation.

**Environmental hazards** Harmful to aquatic life with long lasting effects.

**Supplemental information** None.

**SECTION 3 Composition/information on ingredients**

| Substance/mixture   | Mixture           |            |  |
|---|-------------------|------------|--|
| Chemical name   | Concentration (%) | CAS Number |  |
| 四氢糠酯<br>TETRAHYDROFURFURYL METHACRYLATE                               | 30 - < 40         | 2455-24-5  |  |
| 甲基丙烯酸丙烷-1,2-二醇单酯<br>METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL | 5 - < 10          | 27813-02-1 |  |
| 过氧化羟基异丙苯<br>CUMENE HYDROPEROXIDE                                      | 1 - < 3           | 80-15-9    |  |
| 异丙苯<br>CUMENE   | < 0.3             | 98-82-8    |  |
| Other components below reportable levels                              | 60 - < 70         |            |  |

**SECTION 4 First aid measures**

|   |  |
|---|--|
| <b>Inhalation</b>                                   | Move to fresh air. Call a physician if symptoms develop or persist.  |
| <b>Skin contact</b>                                 | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.   |
| <b>Eye contact</b>                                  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>                                    | Rinse mouth. Get medical attention if symptoms occur.  |
| <b>Most important symptoms and health effects</b>   | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.   |
| <b>Personal protection for first-aid responders</b> | IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. |
| <b>Notes to physician</b>                           | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.   |

## SECTION 5 Fire-fighting measures

|   |   |
|---|---|
| <b>Extinguishing media</b>              | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                      |
| <b>Extinguishing media to avoid</b>     | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>Specific hazards</b>                 | During fire, gases hazardous to health may be formed.   |
| <b>Special fire fighting procedures</b> | Use water spray to cool unopened containers.  |
| <b>Protection of fire-fighters</b>      | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>General fire hazards</b>             | No unusual fire or explosion hazards noted.   |
| <b>Specific methods</b>                 | Use standard firefighting procedures and consider the hazards of other involved materials.    |

## SECTION 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**For emergency responders** Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

**Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**Clean-up methods and materials and containment measures** Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

**Prevention of secondary hazards** Not available.

## SECTION 7 Handling and storage

|                 |  |
|-----------------|--|
| <b>Handling</b> | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. |
| <b>Storage</b>  | Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).<br>Storage class (TRGS 510): 6.1C (Combustible substances of acute toxicity, category 3/hazardous substances that are toxic or produce chronic effects)  |

## SECTION 8 Exposure controls/personal protection

### Exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** Occupational Exposure Limits are not relevant to the current physical form of the product.

**Monitoring methods** Follow standard monitoring procedures.

**Engineering measures** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

### Personal protective equipment

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Wear appropriate chemical resistant gloves.

**Eye protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Hygiene measures**

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## SECTION 9 Physical and chemical properties

**Appearance**

|  |                |
|--|----------------|
| <b>Physical state</b>  | Solid.         |
| <b>Form</b>  | Solid. Paste.  |
| <b>Color</b>   | White.         |
| <b>Odor</b>  | Not available. |
| <b>pH</b>  | Not available. |
| <b>Melting point/freezing point</b>                            | Not available. |
| <b>Boiling point, initial boiling point, and boiling range</b> | Not available. |
| <b>Flash point</b>   | Not available. |
| <b>Explosive limit - lower (%)</b>                             | Not available. |
| <b>Explosive limit - upper (%)</b>                             | Not available. |
| <b>Vapor pressure</b>  | Not available. |
| <b>Vapor density</b>   | Not available. |
| <b>Relative density</b>  | Not available. |
| <b>Density</b>   | Not available. |
| <b>Solubility(ies)</b>   |                |
| <b>Solubility (water)</b>                                      | Not available. |
| <b>Partition coefficient (n-octanol/water)</b>                 | Not available. |
| <b>Auto-ignition temperature</b>                               | Not available. |
| <b>Decomposition temperature</b>                               | Not available. |
| <b>Flammability (solid, gas)</b>                               | Not available. |
| <b>Other data</b>  |                |
| <b>Explosive properties</b>                                    | Not explosive. |
| <b>Oxidizing properties</b>                                    | Not oxidizing. |
| <b>Specific gravity</b>  | 1.64           |

## SECTION 10 Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Stability</b>                          | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## SECTION 11 Toxicological information

|  |  |
|--|--|
| <b>Acute toxicity</b>                    | Not available.   |
| <b>Routes of exposure</b>                | Skin contact. Eye contact.   |
| <b>Symptoms</b>                          | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. |
| <b>Skin corrosion/irritation</b>         | Prolonged skin contact may cause temporary irritation.   |
| <b>Serious eye damage/eye irritation</b> | Causes serious eye irritation.   |

**Respiratory or skin sensitization****Respiratory sensitization** Not a respiratory sensitizer.**Skin sensitizer** May cause an allergic skin reaction.**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.**Carcinogenicity** May cause cancer.**IARC Monographs. Overall Evaluation of Carcinogenicity**

CUMENE (CAS 98-82-8) 2B Possibly carcinogenic to humans.

**Toxic to reproduction** May damage fertility or the unborn child.**Specific target organ toxicity following single exposure** Not classified.**Specific target organ toxicity following repeated exposure** May cause damage to organs through prolonged or repeated exposure.**Aspiration hazard** Not an aspiration hazard.**Chronic effects** May cause damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.**SECTION 12 Ecological information****Ecotoxicological data**

| Components                                      | Species   | Test Results  |
|---|---|---|
| TETRAHYDROFURFURYL METHACRYLATE (CAS 2455-24-5) |   |   |
| <b>Aquatic</b>                                  |   |   |
| <i>Acute</i>                                    |   |   |
| Fish  | LC50  | Fathead minnow (Pimephales promelas) 31.1 - 38.8 mg/l, 96 hours |
| <b>Ecotoxicity</b>                              | Harmful to aquatic life with long lasting effects.  |   |
| <b>Persistence and degradability</b>            | No data is available on the degradability of any ingredients in the mixture.  |   |
| <b>Bioaccumulation</b>                          |   |   |
| <b>Mobility in soil</b>                         | No data available for this product.   |   |
| <b>Other hazardous effects</b>                  | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |   |

**SECTION 13 Disposal considerations**

|                                   |  |
|-----------------------------------|--|
| <b>Residual waste</b>             | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |
| <b>Contaminated packaging</b>     | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.   |
| <b>Local disposal regulations</b> | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |

**SECTION 14 Transport information****CNDG**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.**SECTION 15 Regulatory information****Law of the People's Republic of China on Prevention and Control of Occupational Diseases**

Not regulated.

**Regulations on the Control over Safety of Dangerous Chemicals****Catalog of Hazardous Chemicals**

Cumyl hydroperoxide [90% <content ≤ 98%, including type A diluent ≥ 10%] (CAS 80-15-9)  
Isopropylbenzene (CAS 98-82-8)

**Provision on the Environmental Administration of New Chemical Substances****China Inventory of Existing Chemical Substances**

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| China                | Inventory of Existing Chemical Substances in China (IECSC) | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**SPECIAL CASE**

Not applicable.

**Other regulations**

This safety data sheet conforms to the following laws, regulations and standards:  
Measures for the Safe Use of Chemicals in Workplaces  
General Rules for Preparation of Precautionary Labels for Chemicals (GB15258-2009 )  
Regulations on Labor Protection in Workplaces Where Toxic Products Are Used  
Packing Symbol of Dangerous Goods(GB190-2009)  
Regulations on the Control over Safety of Dangerous Chemicals  
Safety Data Sheet for Chemical Products - Content and Order of Sections (GB/T 16483-2008)  
Packing - Pictorial Marking for Handling of Goods (GB/T191-2008)

**Regulatory information****Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Montreal Protocol**

Not applicable.

**Kyoto protocol**

Not applicable.

**Basel Convention**

Not applicable.

**SECTION 16 Other information****References**

EPA: AQUIRE database  
GB6944-2012: Classification and Code of Dangerous Goods.  
GB12268-2012: List of Dangerous Goods.  
NLM: Hazardous Substances Data Base  
US. IARC Monographs on Occupational Exposures to Chemical Agents

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