



Safety Data Sheet (SDS)

International (GHS)

Revision date: 2018-11-20

SECTION 1: Identification

Product identifiers:

Product trade name: NYCHEM* 1572 Emulsion
Company product number: HYC1572
Other means of identification: Not Available

Recommended use of the chemical and restrictions on use:

Uses: Nitrile emulsion for coatings.
Restrictions on use: None identified

Details of the supplier:

Manufacturer/Supplier: Emerald Performance Materials, LLC
 240 W Emerling Avenue
 Akron, OH 44301
 United States
 Telephone: +1-888-889-9150

For further information about this SDS: Email: product.compliance@emeraldmaterials.com

Emergency telephone number:

ChemTel (24 hours): 1-800-255-3924 (USA); +1-813-248-0585 (outside USA);
 1-300-954-583 (Australia); 000-800-100-4086 (India).

SECTION 2: Hazard(s) identification

Classification of the substance or mixture:

Not classified as hazardous under any GHS hazard class (UN GHS).

Label elements:

Hazard pictogram(s): Not Applicable
Signal word: Not Applicable
Hazard statements: Not Applicable
Precautionary statements: Not Applicable
Supplemental information: No Additional Information

Other hazards: No Additional Information

See Section 11 for toxicological information.

SECTION 3: Composition/information on ingredients

Mixture:

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Weight%</u>
0000151-21-3	Sodium lauryl sulfate	1-<5
25103-58-6	tert-Dodecyl mercaptan	0.1-<1.0

Notes: Sodium lauryl sulfate: <2%.

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

SECTION 4: First-aid measures

Description of first aid measures:

General: If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

Eye contact: Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. If eye irritation persists: Get medical advice/attention.

Skin contact: Wash the affected area thoroughly with plenty of soap and water. Get medical attention if symptoms occur.

Inhalation: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

Protection of first aid responders: Wear proper personal protective clothing and equipment.

Most important symptoms and effects, both acute and delayed: Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. Persons with sensitive airways (e.g., asthmatics) may react to vapors. See section 11 for additional information.

Indication of any immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

SECTION 5: Fire-fighting measures

Extinguishing media:

Suitable: Being an aqueous system, product is not a fire hazard, as supplied. After water is evaporated, dry solids could burn. Water spray, ABC dry chemical and protein type air foams are effective. Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity, which may result in reignition.

Unsuitable: None known.

Special hazards arising From the chemical:

Unusual fire/explosion hazards: None known for the product as delivered (water solution).

Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Hazardous decomposition products) for additional information.

Special protective equipment and precautions for fire-fighters: Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

See section 9 for additional information.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate.

Environmental precautions: Do not flush liquid into public sewer, water systems or surface waters.

Methods and materials for containment and cleaning up: Contain spill. Wear proper personal protective clothing and equipment. Recover as much as possible for reuse. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse. Wash the spill area with soap and water. CAUTION: Spilled liquid and dried film are slippery. Use care to avoid falls.

SECTION 7: Handling and storage

Precautions for safe handling: As with any chemical product, use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers in the work area. Minimize contact with air to reduce contamination with mold, fungus, or other organisms which could cause decomposition or spoilage.

Conditions for safe storage, including any incompatibilities: Product quality degrades after freeze-thaw cycle. Recommend transportation and storage above 60°F (16°C). If product is stored, unopened at 60-90°F (16-32°C), then optimal performance has been reported up to six months from ship date. Store this material away from incompatible substances (see section 10). Do not allow product to freeze. Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

SECTION 8: Exposure controls / personal protection

Control parameters:

Occupational exposure limits (OEL):

<u>Chemical Name</u>	<u>ACGIH - TWA/Ceiling</u>	<u>ACGIH - STEL</u>			
Sodium lauryl sulfate	N/E	N/E			
tert-Dodecyl mercaptan	0.1 ppm TWA (dermal sensitizer)	N/E			
<u>Chemical Name</u>	<u>Australia</u>	<u>New Zealand</u>	<u>Korea</u>	<u>Taiwan</u>	
Sodium lauryl sulfate	N/E	N/E	N/E	N/E	
tert-Dodecyl mercaptan	N/E	N/E	N/E	N/E	
<u>Chemical Name</u>	<u>Japan ISHL</u>	<u>Japan JSOH</u>	<u>Indonesia</u>	<u>Malaysia</u>	
Sodium lauryl sulfate	N/E	N/E	N/E	N/E	
tert-Dodecyl mercaptan	N/E	N/E	N/E	N/E	
<u>Chemical Name</u>	<u>Philippines</u>	<u>Singapore</u>			
Sodium lauryl sulfate	N/E	N/E			
tert-Dodecyl mercaptan	N/E	N/E			

N/E=Not established (no exposure limits established for the listed substances for listed country/region/organization).

Exposure controls:

Appropriate engineering controls: Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety glasses or goggles required.

Skin and body protection: Wear chemical resistant (impervious) gloves. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

Respiratory protection: Respiratory protection is not needed with proper ventilation. 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.

Further information: Eyewash fountains and safety showers are recommended in the work area.

SECTION 9: Physical and chemical properties

Form:	Liquid	pH:	6.8-7.6
Appearance:	Milky	Relative density:	1.0
Odor:	Mild/ unpleasant	Partition coefficient (n-octanol/water):	Not Available
Odor threshold:	Not Available	% Volatile by weight:	50%
Solubility in water:	Dilutable	VOC:	Not Available
Evaporation rate:	Slower than n-butyl acetate	Boiling point °C:	100°C
Vapor pressure:	18 mm Hg @ 20°C (68°F)	Boiling point °F:	212°F
Vapor density:	Lighter than air	Flash point:	Not Applicable

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Viscosity:	30-90 cps @ 25°C	Auto-ignition temperature:	Not Available
Melting point/Freezing point:	Not Available	Flammability (solid, gas):	Not Applicable (liquid)
Oxidizing properties:	Not oxidizing	Flammability or explosive limits:	LFL/LEL Not Available
Explosive properties:	Not explosive		UFL/UEL Not Available
Decomposition temperature:	Not Available		

Other information: Amounts specified are typical and do not represent a specification.

SECTION 10: Stability and reactivity

Reactivity: None known.

Chemical stability: This product is stable. Product quality degrades after freeze-thaw cycle.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Do not freeze.

Incompatible materials: Avoid contact with strong oxidizing agents.

Hazardous decomposition products: After water is evaporated, decomposition or combustion of the dry solids may generate irritating vapors, CO, CO₂, oxides of nitrogen, monomers and hydrocarbons.

SECTION 11: Toxicological information

Information on likely routes of exposure:

General: Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

Eyes: Vapors or direct eye contact may cause irritation.

Skin: Repeated or prolonged skin contact may cause irritation.

Inhalation: Overexposure to aerosol, vapor or mist may cause eye and respiratory tract irritation, dizziness, headache, nausea and flu-like symptoms.

Ingestion: Ingestion may cause irritation.

Acute toxicity information: Not classified (based on available data, the classification criteria are not met). No toxicity studies have been conducted on this product. ATEmix (oral): >2000 mg/kg. ATEmix (dermal): >2000 mg/kg.

<u>Chemical Name</u>	<u>Inhalation LC50</u>	<u>Species</u>	<u>Oral LD50</u>	<u>Species</u>	<u>Dermal LD50</u>	<u>Species</u>
Sodium lauryl sulfate	N/E	N/E	977-1427 mg/kg	Rat/ adult	>2000 mg/kg	Rabbit/ adult
tert-Dodecyl mercaptan	>12 mg/L (NOEC, 4 hours)	Rat/ adult	4380 mg/kg	Rat/ adult	>2000 mg/kg	Rabbit/ adult

Skin corrosion/irritation: Not classified (based on available data, the classification criteria are not met). SODIUM LAURYL SULFATE: Skin irritation - mild to severely irritating at low concentrations.

<u>Chemical Name</u>	<u>Skin irritation</u>	<u>Species</u>
Sodium lauryl sulfate	Moderate irritant	Rabbit/ adult
tert-Dodecyl mercaptan	Moderate irritant	Rabbit/ adult

Serious eye damage/irritation: Not classified (based on available data, the classification criteria are not met). SODIUM LAURYL SULFATE: Eye irritation- mild irritation (2%), moderate irritation (10%), severe irritation (20%).

<u>Chemical Name</u>	<u>Eye irritation</u>	<u>Species</u>
Sodium lauryl sulfate	Moderate irritation (irreversible)	Rabbit/ adult
tert-Dodecyl mercaptan	Mild-moderate irritant	Rabbit/ adult

Respiratory or skin sensitization: Not classified (based on available data, the classification criteria are not met).

<u>Chemical Name</u>	<u>Skin sensitisation</u>	<u>Species</u>
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SDS Name: NYCHEM* 1572 Emulsion

Chemical Name

Sodium lauryl sulfate
tert-Dodecyl mercaptan

Skin sensitisation

Non-sensitizer
Weak sensitizer

Species

Guinea Pig/ adult
Mouse/Local lymph node assay

Carcinogenicity: Not classified.

Germ cell mutagenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity (STOT) - single exposure: Not classified.

Specific target organ toxicity (STOT) - repeated exposure: Not classified.

Aspiration hazard: Not classified (based on available data, the classification criteria are not met).

Other toxicity information: No additional information available.

SECTION 12: Ecological information

Ecotoxicity: No ecological testing has been conducted on this product.

Chemical Name	Species	Acute	Acute	Chronic
Sodium lauryl sulfate	Fish	LC50 3.6 mg/L (96 hours)	LC50 29 mg/L(96 hours)	NOEC >=1.357 mg/L (7 days)
Sodium lauryl sulfate	Invertebrates	EC50 4.7-5.55 mg/L (48 hours)	N/E	NOEC 0.88 mg/L (7 days)
Sodium lauryl sulfate	Algae	EC50 >120 mg/L (72 hours)	EC50 3.6-117 mg/L(96 hours)	NOEC 30 mg/L(72 hours)
tert-Dodecyl mercaptan	Fish	LL50 >100 mg/L (96 hours)	LC50 >water solubility(96 hours)	N/E
tert-Dodecyl mercaptan	Invertebrates	EC50 >0.056 mg/L (48 hours) (>water solubility)	EC50 3.9 mg/L(24 hours)	NOEC 0.0108 mg/L (21 days) (>water solubility)
tert-Dodecyl mercaptan	Algae	EL50 >100 mg/L (72 hours)	N/E	NOEC 3.2 mg/L(72 hours)

Persistence and degradability: No specific information available.

Chemical Name	Biodegradation
Sodium lauryl sulfate	Readily biodegradable
tert-Dodecyl mercaptan	Not readily biodegradable (OECD 301D)

Bioaccumulative potential: No specific information available.

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
Sodium lauryl sulfate	no bioaccumulation expected	1.6
tert-Dodecyl mercaptan	>500-<1950 (Danio rerio)	>6.2

Mobility in soil: No specific information available.

Chemical Name	Mobility in soil (Koc/Kow)
Sodium lauryl sulfate	N/E
tert-Dodecyl mercaptan	N/E

Other adverse effects: No additional information available.

SECTION 13: Disposal considerations

Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate.

See Section 8 for recommendations on the use of personal protective equipment.

SECTION 14: Transport information

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

UN number: N/A

UN proper shipping name:

Not regulated - See Bill of Lading for Details

Transport hazard class(es):

SDS Name: NYCHEM* 1572 Emulsion

U.S. DOT hazard class: N/A
Canada TDG hazard class: N/A
Europe ADR/RID hazard class: N/A
IMDG Code (ocean) hazard class: N/A
ICAO/IATA (air) hazard class: N/A

A "N/A" listing for the hazard class indicates the product is not regulated for transport by that regulation.

Packing group: N/A

Environmental hazards:

Marine pollutant: Not Applicable
Hazardous substance (USA): Not Applicable

Special precautions for user: Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:
Not Applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question:

Japan regulations:

Japan Industrial Safety and Health Law:

<u>Chemical name</u>	<u>Category</u>
No subject chemicals	

Japan Fire Service Law:

<u>Chemical name</u>	<u>Category</u>
tert-Dodecyl mercaptan	Group 4 - Flammable liquids

Japan Poisonous and Deleterious Substances:

<u>Chemical name</u>	<u>Category</u>	<u>Threshold</u>
No subject chemicals		

Japan Prevention of Marine Pollution and Disaster:

<u>Chemical name</u>	<u>Category</u>
tert-Dodecyl mercaptan	Noxious Category X

Japan Chemical Substances Control Law:

<u>Chemical name</u>	<u>Category</u>	<u>Notes</u>
Sodium lauryl sulfate	Priority assessment chemical	Substance control number 214

Korean regulations:

Korea Industrial Safety and Health Act:

<u>Chemical name</u>	<u>Category</u>	<u>Threshold</u>
No subject chemicals		

Korea Act on Registration and Evaluation of Chemical Substances (K-REACH) - Substances subject to registration:

No subject chemicals

Korea Chemical Control Act (CCA):

<u>Chemical name</u>	<u>Category</u>	<u>Code</u>	<u>Threshold</u>
No subject chemicals			

Korea Safety Control of Dangerous Substances Act (MPSS):

<u>Chemical name</u>	<u>Class</u>	<u>Threshold</u>
No subject chemicals		

Korea Waste Control Act: Waste disposal methods must comply with local and national laws.

<u>Chemical name</u>	<u>Notes</u>
No subject chemicals	

Other regulations: No Additional Information

Chemical inventories:

<u>Regulation</u>	<u>Status</u>
Australian Inventory of Chemical Substances (AICS):	N
Canadian Domestic Substances List (DSL):	Y
Canadian Non-Domestic Substances List (NDSL):	N
China Inventory of Existing Chemical Substances (IECSC):	N
European EC Inventory (EINECS, ELINCS, NLP):	Y
Japan Existing and New Chemical Substances (ENCS):	N

Regulation

Status

Japan Industrial Safety and Health Law (ISHL):	N
Korean Existing and Evaluated Chemical Substances (KECL):	N
New Zealand Inventory of Chemicals (NZIoC):	N
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	N
Taiwan Inventory of Existing Chemicals:	Y
U.S. Toxic Substances Control Act (TSCA):	Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed. A "Y" for New Zealand may mean that a qualified group standard may exist for the components in this product.

Chemical inventory notes: New Zealand: One or more components may be covered by a group standard.

Europe REACH (EC) 1907/2006: One or more applicable components of this mixture are not registered. Please contact your sales representative for further information regarding REACH compliance. REACH is only relevant to substances either manufactured or imported into the EU. REACH information regarding this product is provided for informational purposes only. Each Legal Entity may have differing REACH obligations, depending on their place in the supply chain. For material manufactured outside of the EU, the importer of record must understand and meet their specific obligations under the regulation.

SECTION 16: Other information

Legend:

- * : Trademark owned by Emerald Performance Materials, LLC.
- ACGIH: American Conference of Governmental Industrial Hygienists
- N/A: Not Applicable
- N/E: None Established
- STEL: Short Term Exposure Limit
- TWA: Time Weighted Average (exposure for 8-hour workday)

Users Responsibility/Disclaimer of Liability:

The information set forth herein is based on our current knowledge, and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.

Safety Data Sheet Preparer:
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