

Safety Data Sheet



Polyester Thinning Agent

Section 1 Identification

Section 1 Identification			
Droductidoutifican	HM	IS	
Product identifiers Product name: Polyester Thinning Agent	Н	2	
Relevant identified uses of the substance or mixture and uses advised against	F	3	
Identified uses: For Industrial Use Only	R	0	
Details of the supplier of the safety data sheet			
Freeman Manufacturing and Supply Company	Sec. 8	3	
1101 Moore Road, Avon, OH 44011			
Phone (440) 934-1902			
FAX (440) 934-7200			
24 Hour emergency telephone number: CHEMTREC (800) 424-9300			
Section 2 Hazards Identification			
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).			
Classification of the substance or mixture			
Flammable liquids, Category 3			
Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2			
Acute toxicity, Inhalation Category 4			
Specific target organ toxicity, single exposure Category 3			
Reproductive toxicity, Category 2			
Carcinogenicity, Category 2			
Specific target organ toxicity, repeated exposure Category 1			
Aspiration hazard, Category 1			
GHS Label elements			
Signal word Danger			
Hazard statements			

Flammable liquid and vapor. Harmful if inhaled. Suspected of damaging the unborn child. Suspected of causing cancer. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure if inhaled. May be fatal if swallowed or enters airways.



Section 2 Hazards Identification continued

Precautionary statements
Prevention
Keep away from heat, sparks, open flames and hot surfaces No smoking.
Keep container tightly closed.
Do not breathe vapor or mist.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Response
If swallowed: Immediately call a POISON CENTER or doctor/physician.
Do not induce vomiting. Get medical attention.
If inhaled: Remove person to fresh air and call doctor/physician if not feeling well.
If on skin: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
If in eyes: Rinse continuously with water for at least 15 minutes. Remove contact lenses, if
present and easy to do. If eye irritation persists: Get medical advice/attention.
Storage
Store in a well-ventilated place. Keep cool. Keep container tightly closed.
Disposal
Dispose of contents and container in accordance with all local, regional, national and internationa regulations.
Hazards not otherwise classified (HNOC) or not covered by GHS
None known
Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Styrene	100-42-5	30-35
N,N-Dimethylaniline	121-69-7	<1

Section 4 First-Aid Measures

Description of first aid measures

If inhaled: Move the victim to a safe area as soon as possible. Allow the victim to rest in a well-ventilated area. If breathing is difficult, give oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

In case of skin contact: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, seek medical attention. Wash contaminated clothing before reuse.

In case of eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Use of buffered baby shampoo will aid in removal. If irritation persists, get medical attention.

If swallowed: Wash out mouth with water. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek immediate medical attention.





Section 4 First-Aid Measures continued

Most important symptoms and effects, both acute and delayed

Eye contact: Causes serious eye irritation.

Inhalation: Harmfulif inhaled. May cause respiratory irritation.

Skin contact: Causes skin irritation.

Ingestion: Irritating to mouth, throat and stomach.

Indication of any immediate medical attention and special treatment needed

Eye contact: Adverse symptoms may include pain or irritation, watering, redness. Inhalation: Adverse symptoms may include respiratory tract irritation, coughing. Skin contact: Adverse symptoms may include irritation, redness.

Ingestion: Adverse symptoms may include irritation to mouth, throat and stomach.

Notes to physician: Treat symptomatically.

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Use dry chemical, carbon dioxide, water spray (fog), or alcohol-resistant foam.

Unsuitable extinguishing media

Do not use water jet.

Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase may occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products

During combustion, decomposition products may include: carbon dioxide, carbon monoxide, sulfur oxides, halogenated compounds, metal oxide/oxides

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas.

For personal protection see Section 8.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.



Section 7 Handling and Storage

Precautions for safe handling

Use normal precautions when handling flammable materials. Do not breathe fumes or vapor. Do not allow material to contact skin. Provide appropriate exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from food and drink. Eliminate all ignition sources. Segregate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Section 8 Exposure Controls/Personal Protection

Components with occupational exposure limits

Ingredient	OSHA		AC	GIH
	PEL	STEL	TWA	STEL
Styrene	50 ppm	100 ppm	20 ppm	40 ppm
N,N-Dimethylaniline	5 ppm	10 ppm	5 ppm	10 ppm

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

Personal protective equipment

Eye/face protection

Use safety eyewear complying with an approved standard when a risk assessment indicates this is necessary. Vented goggles are recommended.

Hand Protection

Use disposable gloves to prevent skin contact. Contaminated gloves should be replaced. **Body Protection**

Prevent skin contact when handling material.

Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, use a properly fitted, air-purifying or air-fed respirator complying with an approved standard

General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance Odor Odor Threshold pH Melting Point Boiling Point VOC Content Flash Point

Amber to purple liquid Styrene 0.01-0.1 ppm (styrene) Not applicable -30.6°C (-23.8°F) 145°C (293°F) 3.2 lb./gallon 31°C (88°F)



Section 9 Physical and Chemical Properties continued

Evaporation rate Flammability (solid, gas) Upper/lower flammability Vapor Pressure Vapor density Relative density (g/cc) Water Solubility Coefficient: n-octanol/water Auto-ignition temperature Viscosity < 1 Not applicable Upper: 6.1%, Lower: 1.1% 5.0 mm Hg at 20°C 3.6 1.1 Slight No data available 490°C (914°F) No data available

Section 10 Stability and Reactivity

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

Avoid all possible sources of ignition.

Incompatible materials

Oxidizing agents

Hazardous decomposition products

Thermal oxidative decomposition can produce carbon monoxide and carbon dioxide.

Section 11 Toxicological Information

Information on toxicological effects			
Acute oral toxicity	LD50 (Rat) 2,650 mg/kg (Styrene)		
Acute inhalation toxicity	LC50 (Rat) 12,000 mg/m ³ , 4 hours (Styrene)		
Acute dermal toxicity	LD50 (Rat) >2,000 mg/kg (Styrene)		
Skin corrosion/irritation	Mild skin irritant		
Serious eye damage/eye irritation	Mild eye irritant		
Respiratory or skin sensitization	May cause sensitization		
Germ cell mutagenicity	No data available		
Carcinogenicity			
1 5	IARC: Group 2B: Possibly carcinogenic to humans (Styrene)		
9 1	NTP : Reasonably Anticipated to be a Human Carcinogen (Styrene).		
OSHA : No component of this product present at levels greater than or equal to 0.1% is			
	gen or potential carcinogen by OSHA.		
Reproductive toxicity	Suspected of damaging fertility or the unborn child		
Specific target organ toxicity			
- single exposure	Possible respiratory tract irritation		
Specific target organ toxicity			
- repeated exposure	A study of long term effects of workers exposed to styrene levels in the range of 25-35 ppm, 8 hour TWA, indicated a possible mild hearing loss.		
Aspiration hazard	May be fatal if swallowed or enters airways		



Section 12 Ecological Information

Toxicity

Persistence and degradability Bioaccumulative potential Mobility in soil Results of PBT & vPvB assessment No data available No data available No data available No data available No data available

Section 13 Disposal Considerations

Use safety containers for disposal. Contact a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.

Section 14 Transport Information

DOT

Shipping Name Resin Solution Hazard Class: 3 ID No.: UN1866 Packing Group: III

IMDG

Emergency Schedule: F-E, S-E

Section 15 Regulatory Information

Inventories

United States TSCA Inventory Status: All ingredients are listed or exempted.

US Federal Regulations

RCRA Hazardous Waste Number (40 CFR 261.33): Not listed RCRA Hazardous Waste Classification (40 CFR 261): Not classified SARA 311/312 Codes: Acute Health Hazard, Chronic Health Hazard, Fire Hazard SARA 313 Toxic Chemicals (40 CFR 372.65): Styrene 100-42-5, CERCLA RQ – 1000 lb.

US State Regulations

California Proposition 65: **M WARNING**: This product can expose you to chemicals including Styrene, which is known to the State of California to cause cancer. For more information go to <u>www.P65Warnings.ca.gov</u>.

Section 16 Other Information

Disclaimer

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.