

Material Safety Data Sheet

Material Name: Masterchem Ultra PAG ISO46
(Includes 8oz, 12oz, Quart & 55 gal. Drum Containers)

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	Masterchem Ultra PAG46
Manufacturer/Supplier	Santech Industries, Inc
Address	2450 Handley Ederville Rd. Ft. Worth, TX 76118 USA
Phone Number	1-817-589-1212
Fax Number	1-817-589-5900
Emergency Phone Number	1-800-424-9300 (Chemtrec)

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Product Trivial Name	Polypropylene glycol methyl ether, tetrahydrofurfuryl ether.
Product Chemical Family	Polyalkylene glycol

3. HAZARD IDENTIFICATION

Main Hazards	Harmful if swallowed.
Health Effects - Eyes	Liquid or mist may cause slight transient irritation.
Health Effects - Skin	Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.
Health Effects - Ingestion	A large dose may have the following effects:- irritation of mouth, throat and digestive tract. nausea. vomiting. diarrhoea.
Health Effects - Inhalation	Low volatility makes acute effects unlikely at ambient temperatures. Exposure to mist at high concentrations may have the following effects:- lung damage.

4. FIRST AID MEASURES

First Aid - Eyes	Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. Obtain medical attention.
First Aid - Skin	Wash skin thoroughly with soap and water. Contaminated clothing should be washed or dry-cleaned before re-use.
First Aid - Ingestion	Wash out mouth with water. (Never administer anything by mouth if a casualty is losing consciousness, is unconscious or is convulsing). Do not induce vomiting. Obtain medical attention.
First Aid - Inhalation	Remove from exposure. Keep warm and at rest. Seek medical attention if you feel unwell.
Advice to Physicians	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.
Unsuitable Extinguishing Media	Do not use water jet.
Special Hazards of Product	This product may give rise to hazardous fumes in a fire.
Protective Equipment for Fire-Fighting	Wear self contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective clothing.
Environmental Precautions	Try to prevent the material from entering drains or water courses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.
Spillages	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling	Keep container tightly closed when not in use. Use in well ventilated area. Exposure to mist and vapour from heated product should be minimised by the provision of efficient local ventilation or extraction systems. Avoid contact with eyes, skin and clothing.
Storage	Storage area should be: cool. dry. well ventilated. Suitable storage materials are:- rust-free mild steel. stainless steel. high density polyethylene.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards	UK EH40 - OES/MEL: None assigned. ACGIH - TLV/STEL: None assigned. FRG - MAK/TRK: None assigned. WGD - MAC-TGG : None assigned. SWE - NGV: None assigned.
Engineering Control Measures	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.
Respiratory Protection	Respiratory protection if there is risk of breathing mists or vapours from heated material. Respiratory protection if there is risk of uncontrolled exposure to aerosols.
Hand Protection	PVC or rubber gloves.
Eye Protection	Chemical goggles if there is a risk of splashing.
Body Protection	overall or apron.
Protection During Application	During application, adequate ventilation must be provided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Colour	Yellow.
Boiling Range/Point (°C)	Decomposes before boiling.
Flash Point (PMCC) (°C)	> 200 (Open-cup method)
Solubility in Water (kg/m3)	Partially soluble.
Density (kg/m3)	1000 at 20 °C. (typical)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to Avoid	Oxidising agents. Strong mineral acids.
Hazardous Decomposition	Combustion will generate: oxides of carbon. small

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Products	amounts of aldehydes, ketones and alcohols. hydrogen chloride.
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11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Harmful by ingestion. Oral LD50 (rat) 500mg/kg. (data on main component(s))
Irritancy - Eyes	The eye irritancy has been investigated by OECD Test method 405. Single application to the rabbit eye produced minimal conjunctival irritation. (based on major component)
Irritancy - Skin	The skin irritancy has been investigated by OECD Test Method 404. A single 4h semi-occlusive application to intact rabbit skin produced minimal signs of irritation (mean scores for erythema or oedema less than 2). (based on major component)
Sub-acute/Subchronic Toxicity	Repeated exposure to aerosols may result in lung damage.

12. ECOLOGICAL INFORMATION

Persistence/Degradability	The product is resistant to biodegradation.
Bio-accumulation	No data.
Ecotoxicity	No data.

13. DISPOSAL

Product Disposal	Dispose of in accordance with all applicable local and national regulations. Incineration is the recommended method of disposal.
Container Disposal	Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

14. TRANSPORT INFORMATION

UN Number	Not classified.
ADR/RID - Class	Not classified.
IMDG - Class	Not classified.
IATA - Class	Not classified.

15. REGULATORY INFORMATION

Labelling Information



Harmful

Not classified -
Safety

R phrases

Harmful if swallowed.

S phrases

Avoid contact with skin and eyes.

EINECS Listing

All components are either EINECS listed or classified as polymers.

WGK Classification

2 (Voluntary classification).