
SECTION 1: IDENTIFICATION

Catalog No. (N/A)

Product Name: **Metal Mask**
Manufacturer Name: POR-15, Inc.
General Use: Topcoat
Address: P.O. Box 1235
Morristown NJ 07962-1235
Email: support@por15.com
Business Phone: (800) 457-6715
Business Fax: (973) 887-8007
Emergency Phone: (973)-887-1999
For information
in North America, call: (800) 457-6715

CHEMTREC Numbers:**For emergencies in the US, call CHEMTREC: 800-424-9300****For emergencies outside US, call INTERNATIONAL: (703)527-3887**

Manufacturer MSDS Revision 09/15/2005
Date:

Physical Description / Properties

Physical State/Appearance: Liquid
Color: Gray
Odor: Specific
Vapor Density: Heavier than air
Flash Point: 40°C (104°F)
Auto Ignition Temperature: 246°C (475°F)
Upper Explosive Limit: 6%
Lower Explosive Limit: 0.77%
Boiling Point: 177 - 196°C (350 - 385°F)
Melting Point: Not Applicable
Solubility: Negligible In Water
Specific Gravity: 1.28 (Water = 1)
Molecular Formula: Mixture
Molecular Weight: Varies

Ingredients

Chemical Name	CAS#	Lower Percent	Upper Percent
Oil Mod Polyurethanes	Proprietary		
Aliphatic Hydrocarbon	64741-41-9		
Aluminum	7429-90-5		

Manganese Oxide	1313-13-9
Iron Oxide	1309-37-1
Silicon Dioxide	7631-86-9
Aluminum Dioxide	1344-28-1

*The last four potentially hazardous ingredients have been chemically reacted at high temp and are homogenically and ionically interdiffused to create an essentially insolubly pigment. This means that they are not present in the form of simple physical mixture.

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SECTION 2 : HEALTH HAZARD INFORMATION

Catalog No.: (N/A)

Health Effects

Emergency Overview: Hazardous according to criteria of Worksafe Australia

Applies to All Ingredients:

Carcinogenicity: Potential carcinogens: None

Signs/Symptoms: Headache, dizziness, nausea, respiratory tract irritation; may be an eye irritant & cause skin irritation.

First Aid

Eye Contact:	Immediately flush eyes with plenty of water for 15 to 20 minutes occasionally lifting eyelids. Get medical attention, if irritation or symptoms of overexposure persists.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash contaminated clothing thoroughly before re-use.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention if necessary.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Oil Mod Polyurethanes :

Aliphatic Hydrocarbon :

Aluminum :

Manganese Oxide :

Iron Oxide :

Silicon Dioxide :

Aluminum Dioxide :

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SECTION 3 : PRECAUTIONS FOR USE

Catalog No.: (N/A)

Engineering Controls / Personal Protection / Flammability

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Ventilation System:	Use in well-ventilated areas only. Have adequate general exhaust.
Local Exhaust:	Yes
Skin Protection Description:	Cover as much of the exposed skin area as possible with appropriate clothing. If skin creams are used, keep the area covered to a minimum.
Hand Protection Description:	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166. Contact lenses should not be worn.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, spray painting, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Eyewash and deluge shower should be available.

Exposure Standards

Ingredient Guidelines

Ingredient: Aliphatic Hydrocarbon

Guideline Type:	OSHA PEL-TWA
Guideline Type:	ACGIH TLV-TWA
Guideline Type:	Australian Exposure Standard
Ingredient: <u>Aluminum</u>	
Guideline Type:	Australian Exposure Standard
Guideline Type:	ACGIH TLV-TWA
Guideline Type:	OSHA PEL-TWA
Guideline Information:	5 mg/m3
Ingredient: <u>Aluminum Dioxide</u>	
Guideline Type:	OSHA PEL-TWA
Guideline Information:	5 mg/m3
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	10 mg/m3 (E)
Guideline Type:	Australian Exposure Standard
Ingredient: <u>Iron Oxide</u>	
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	(5 mg/m3)
Guideline Type:	Australian Exposure Standard
Guideline Type:	OSHA PEL-TWA
Guideline Information:	10 mg/m3
Ingredient: <u>Manganese Oxide</u>	
Guideline Type:	OSHA PEL-TWA
Guideline Type:	ACGIH TLV-TWA
Guideline Type:	Australian Exposure Standard
Ingredient: <u>Oil Mod Polyurethanes</u>	
Guideline Type:	Australian Exposure Standard

Guideline Type:	ACGIH TLV-TWA
Guideline Type:	OSHA PEL-TWA
	Ingredient: <u>Silicon Dioxide</u>
Guideline Type:	OSHA PEL-TWA
Guideline Type:	ACGIH TLV-TWA
Guideline Type:	Australian Exposure Standard

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SECTION 4 : SAFE HANDLING INFORMATION

Catalog No.: (N/A)

Storage And Transport

Hygiene Practices:	Avoid ingesting this product.
Chemical Stability:	Stable under normal storage & usage.
Conditions to Avoid:	Heat, sparks, open flame & fire.
Incompatibilities with Other Materials:	Strong oxidizing agents like bleach, hydrogen peroxide. Avoid contact with zinc, magnesium, galvanized metals.
Reactivity:	Non-reactive in water
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	Thermal decomp may yield carbon monoxide.
DOT Shipping Name:	Paint
DOT UN Number:	UN1263
DOT Hazard Class:	3
DOT Packing Group:	III

Spills And Disposal

Spill Cleanup Measures:	Keep away from heat, sparks, open flame. Use with adequate ventilation; avoid prolonged contact.
Other Precautions:	Goggles and protective gloves are recommended.
Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines. Triple-rinse drum prior to offering for recycle.

Fire / Explosion Hazard

Fire:	Combustible liquid. At elevated temperatures, vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back.
Flash Point:	40°C (104°F)
Flash Point Method:	TCC
Upper Flammable or Explosive Limit:	6%
Lower Flammable or Explosive Limit:	0.77%
Auto Ignition Temperature:	246°C (475°F)
Extinguishing Media:	Drv chemical (e.g. monoammonium phosphate, potassium sulfate, and potassium

Fire Fighting Instructions:	chloride), carbon dioxide, high expansion (proteinic) chemical foam, sand.
Protective Equipment:	Avoid spreading burning liquid with water for cooling purposes.
Unusual Fire Hazards:	As in any fire wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
	Keep work area free of hot metal surfaces and other sources of ignition. Combustible.

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OTHER INFORMATION

Catalog No.: (N/A)

[Oil Mod Polyurethanes :](#)

[Aliphatic Hydrocarbon :](#)

[Aluminum :](#)

[Manganese Oxide :](#)

[Iron Oxide :](#)

[Silicon Dioxide :](#)

[Aluminum Dioxide :](#)

Disclaimer:

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet. We welcome any additional information about our products that customers have obtained by personal experience.

References:

1. American Chemical Society, STN Easy Online Database
2. Brethericks Reactive Chemical Hazards Database. Version 2.
3. Gassarett and Doulls Toxicology, The Basic Science of Poisons.
4. Hawleys Condensed Chemical Dictionary, Thirteenth Edition
5. IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, WHO International Research on Cancer.
6. Industrial Hygiene and Toxicology, by F.A. Patty.
7. National Library of Medicine, Department of Health and Human Services, Hazardous Substances Data Bank (HSDB).
8. National Toxicology Program (NTP) Eighth Report on Carcinogens, 1997.
9. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) and Pocket Guide to Chemical Hazards.
10. OSHA Hazard Communication Standard, 1910.1200 and Z Tables.
11. Sax Dangerous Properties of Industrial Materials. Tenth Edition.
12. The Merck Index: An Encyclopedia of Chemicals and Drugs. Merck and Company. Twelfth Edition 1998.
13. Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environment and Biological Exposure Indices. TLV Booklet, 2001.

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