

MSDS - Material Safety Data Sheet**Product Name: TITE SEAL PAINTABLE AUTO BODY UNDERCOATING**

MSDS No.: T1616

I. Basic Information:**Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Country:** USA**Contact:** Robert Geer**Information Telephone Number:** 704--68-4-18 11**Emergency Contact:** Rocky Mountain Poison & Drug Center**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** TITE SEAL PAINTABLE AUTO BODY UNDERCOATING**MSDS No.:** T1616**Issue Date:** 05/29/2014**Supersedes Date:** 04/18/2011**II. Hazards Identification:****EMERGENCY OVERVIEW**

DANGER: Extremely Flammable. Harmful or Fatal if Swallowed. Eye Irritant, Contents Under Pressure.

Level 2 Aerosol

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects**Route(s) of Entry:**

Absorption, Eye, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

Acute Hazards: Eye and skin irritant. Irritating to respiratory systems. Chronic Hazards: May cause adverse liver effects..

Signs and Symptoms:

Eye Contact: Direct spray of vapors may be irritating or harmful to eyes.

Skin Contact: Prolonged contact may cause irritation due to defatting of skin.

Inhalation: High concentration of vapors may irritate nose and throat and cause headaches and nausea.

Ingestion: Can cause irritation, gastric disturbances, and nausea..

Medical Conditions Generally Aggravated by Exposure:

Central nervous system. Pre-existing eye disorders, Skin disorders. Respiratory disorders. Kidney disorders. Liver disorders.

Other Health Warnings:

Use of alcoholic beverages may enhance toxic effects.

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
Calcium carbonate	1317-65-3	30.0 -40.0	
Liquefied Petroleum Gas	68476-86-8	10.0 - 30.0	
Methyl acetate	79-20-9	1.0 - 10.0	
Toluene	108-88-3	1.0 - 10.0	

IV. First Aid Measures:**Emergency and First Aid Procedures:**

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Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.

Skin Contact: Wash with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Launder contaminated clothing before reuse.

Inhalation: Remove to fresh air. If breathing becomes difficult give oxygen and get prompt medical attention. If breathing stops, give artificial respiration and get prompt medical attention.

Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately.

Note to Physicians:

N/D

V. Fire Fighting Measures:

Suitable Extinguishing Media:

Foam, Carbon Dioxide, Dry Chemical and Alcohol-resistant foam.

Unsuitable Extinguishing Media:

Do not use forced water stream as this could cause the fire to spread.

Products of Combustion:

Carbon Oxides

Protection of Firefighters:

Wear self-contained positive pressure breathing apparatus and protective clothes. Use shield to protect from rupturing and venting containers. At elevated temperatures containers may vent, rupture or burst, even violently

VI. Accidental Release Measures:

Personal Precautions:

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental Precautions:

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred. Run off to sewer may create fire or explosion hazard.

Methods for Containment:

Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc).

Methods for Cleanup:

Using a non-metallic scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material.

Other Information:

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred.

VII. Handling and Storage:

Handling Precautions:

Use with adequate ventilation. Avoid breathing vapors or mist. Do not take internally. Do not expose to heat, sunlight, or store at temperatures above 120 F. Do not puncture or incinerate container. Wash hands before handling food. Use good hygiene practices. Do not spray into open flame or near other sources of ignition. Keep out of Reach of Children and Animals.

Storage Precautions:

Keep away from heat, sparks and flame. Keep from freezing. Do not store product above 120°F. Avoid contact with strong oxidizers.

VIII. Exposure Controls/Personal Protection:

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Liquefied Petroleum Gas	N/E	1000 ppm	Not Available
Toluene	100 PPM	100 PPM	Not Available
Methyl acetate	200 ppm	200 ppm	Not Available
Calcium carbonate	15 mg/m3	10 mg/m3	Not Available

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Engineering Controls:

See Section above for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator. Use explosion -proof ventilation equipment.

Personal Protective Equipment:

For prolonged exposure wear protective safety glasses, gloves, and apron.

IX. Physical and Chemical Properties:

Boiling Point: N/A

Boiling Range: N/A

Solubility In Water: Negligible

Flash Point: -156°F

Odor Threshold: N/D

Vapor Density (AIR = 1): > 1

pH Range: N/A

Decomposition Temp: N/D

Lower Explosive Limit: 0.9%

Specific Gravity (H2O = 1): 1.19

Other Information: VOC Content: 39.9%

Melting Point: N/A

Freezing Point: N/D

Evaporation Rate (Butyl Acetate = 1): > 1

Flash Point Method: No Information Available

Appearance and Odor: Opaque black wet film with solvent odor.

Vapor Pressure (mm Hg.): N/A

Partition Coefficient: N/D

Auto-Ignition Temp: N/D

Upper Explosive Limit: 16.0%

X. Stability and Reactivity:

Stability:

Stable

Conditions to Avoid:

Avoid high temperatures and open flames. Avoid strong oxidizing agents and strong bases.

Incompatible Materials:

Incompatibility: Strong oxidizers.

Hazardous Decomposition Products:

Carbon Oxides, Smoke and Fumes.

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

Causes skin, eye and respiratory tract irritation. May be harmful if swallowed.

Toluene: LD50 Oral - 636 mg/kg (rat)
LD50 Dermal - 8390 mg/kg (rabbit)
LC50 Inhalation - 12.5 mg/L (rat) 4 hrs.

Methyl Acetate: LD50 Oral - >5000 mg/kg (rat)
LD50 Dermal - > 5 g/kg (rabbit)
LC50 Inhalation - 16000 ppm (rat) 4 hrs

Toluene: IARC - Group 3

Target organs Effects: Central nervous system, eyes, respiratory system, skin, kidney and liver.

XII. Ecological Information:

No data available

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XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in aerosol recycling centers when empty. Before offering for recycling, empty the can by using the product according to the label. DO NOT PUNCTURE! If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations.

XIV. Transport Information:

Shipping Name: See below

DOT Hazard Class: Not Available

DOT Subsidiary Hazard Class: Not Available

UN/NA#: Not Available

Packing Group: Not Available

Transportation Information:

Domestic Ground:

DOT Hazard Class: ORM-D

Shipping Name: Consumer Commodity

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for international and air shipping purposes.

ICAO/IATA (US)

Shipping Name: Aerosols, flammable

Class: 2.1

UN number: UN1950

LTD. QTY

International:

ICAO/IATA

UN number: UN1950

Shipping Name: Aerosols, flammable

Class: 2.1

LTD. QTY.

IMDG

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

EmS: F-D, S-U

LTD. QTY

XV. Regulatory Information:

SARA 313 Reportable Chemicals.

Toluene 108-88-3

USA TSCA: All components of this material are listed on the US TSCA Inventory.

Warning: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

State RTK

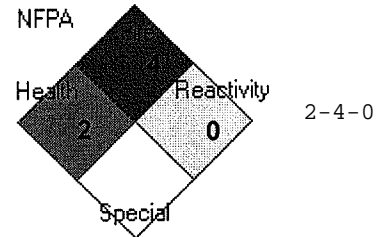
Toluene 108-88-3

Methyl Acetate 79-20-9

Calcium Carbonate 1317-65-3

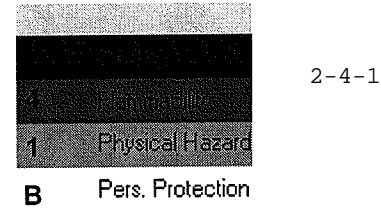
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Hazard Category:

 Acute Chronic Fire
 Pressure Reactive
**Additional Manufacturer Warnings:**

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!

N/E: Not Established
 N/D: Not Determined
 N/A: Not Applicable
 N/AV: Not Available

**Additional Product Information:**

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.