

MSDS - Material Safety Data Sheet**Product Name: SMITH & WESSON® SYNTHETIC-SAFE BORE AND ACTION CLEANER**

MSDS No.: SW005

I. Basic Information:**Manufacturer:** RADIATOR SPECIALTY COMPANY**Contact:** Robert Geer**Address:** 600 RADIATOR ROAD**Information Telephone Number:** 704-684--181 1**City, ST Zip:** INDIAN TRAIL, NC 28079**Emergency Contact:** Rocky Mountain Poison Control Center**Country:****Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** SMITH & WESSON® SYNTHETIC-SAFE BORE AND ACTION CLEANER**MSDS No.:** SW005**Issue Date:** 08/19/2009**Supersedes Date:** 01/26/2006**II. Hazards Identification:****EMERGENCY OVERVIEW**

DANGER: FLAMMABLE. HARMFUL OF FATAL IF SWALLOWED. EYE AND SKIN IRRITANT. CONTENT UNDER PRESSURE.

Aerosol Level 3

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):

See Signs and Symptoms below

Signs and Symptoms:

Eye Contact: May cause eye irritation.

Skin Contact: Prolonged contact may cause cause irritation.

Inhalation: Effect not known

Ingestion: May cause diarrhea, nausea, and cramps.

Medical Conditions Generally Aggravated by Exposure:

None Known

Other Health Warnings:

Vomiting and subsequent aspiration into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition.

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients:

| Chemical Name | CAS No. | % Range | Trade Secret |
|---|------------|-------------|--------------|
| 1,2,4-Trimethylbenzene | 95-63-6 | 1.0 - 5.0 | |
| Aliphatic Hydrocarbon Solvent | 8052-41-3 | 30.0 - 60.0 | |
| Carbon dioxide | 124-38-9 | 1.0 - 5.0 | |
| Ethoxylated Nonyl Phenol | 9016-45-9 | 0.1 - 1.0 | |
| Ethylbenzene | 100-41-4 | 0.1 - 1.0 | |
| Mesitylene | 108-67-8 | 1.0 - 5.0 | |
| Natural Methyl Ester | 67762-38-3 | 5.0 - 10.0 | |
| Orange Oil | 8028-48-6 | 1.0 - 5.0 | |
| Petroleum Distillate, Hydrotreated Middle | 64742-46-7 | 30.0 - 60.0 | |

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Xylene (mixed isomers)

1330-20-7

1.0 - 5.0

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

Eye Contact: Flush eyes with water for 15 minutes while lifting upper and lower eyelid. Get prompt medical attention.

Skin Contact: Wash with soap and water. If irritation persists, get prompt medical attention.

Inhalation: Move to fresh air. If breathing becomes difficult 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:**

Water Fog, Foam, Carbon Dioxide, Dry Chemical

Unsuitable Extinguishing Media:

Wear self-contained positive pressure breathing apparatus and protective clothes.

Products of Combustion:

Carbon dioxide and carbon monoxide.

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:

Eliminate all ignition sources. 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:**

Do not spray into electrical connections or outlets. Do not puncture or incinerate container. Do not expose to heat, sparks or flames. Wash hand after using

Storage Precautions:

keep away from heat, flames and sparks. Do not store at temperatures above 120°F, away from oxidizing agents.

VIII. Exposure Controls/Personal Protection:

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| Chemical Name | OSHA PEL | ACGIH TLV | Other Limits |
|---|-----------------|------------------|---------------------|
| Petroleum Distillate, Hydrotreated Middle | 5 mg/m3 | 5 mg/m3 | Not Available |
| Orange Oil | N/ E | N/E | Not Available |
| Natural Methyl Ester | N/E | N/E | Not Available |
| Ethoxylated Nonyl Phenol | N/D | N/D | Not Available |
| Carbon dioxide | N/AV | 5000 ppm | Not Available |
| Aliphatic Hydrocarbon Solvent | 100 ppm | 100 ppm | Not Available |
| 1,2,4-Trimethylbenzene | N/E | 25 ppm | Not Available |
| Mesitylene | N/A | N/A | Not Available |
| Ethylbenzene | 100 ppm | 100 ppm | Not Available |
| Xylene (mixed isomers) | 100 ppm | 100 ppm | Not Available |

Engineering Controls:

See above Section for applicable exposure limits. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment:

Use with adequate ventilation. For prolonged exposure to the material, wear safety glasses, gloves, and apron. If exposed to vapor mist, wear approved respirator designed to remove particles of chemicals from the vapor mist.

IX. Physical and Chemical Properties:

Boiling Point: 212°F

Boiling Range: Not Available

Solubility In Water: partial

Flash Point: 105F

Odor Threshold: Not Available

Vapor Density (AIR = 1): N/D

pH Range: Not Available

Decomposition Temp: Not Available

Lower Explosive Limit: N/A

Specific Gravity (H2O = 1): 0.84

Other Information: VOC Content: < 42.23%

Melting Point: N/A

Freezing Point: Not Available

Evaporation Rate (Butyl Acetate = 1): N/D

Flash Point Method: TCC

Appearance and Odor: Clear slight amber liquid with petroleum odor

Vapor Pressure (mm Hg.): N/D

Partition Coefficient: Not Available

Auto-Ignition Temp: Not Available

Upper Explosive Limit: N/A

X. Stability and Reactivity:

Stability:

Stable

Conditions to Avoid:

See Incompatible materials below.

Incompatible Materials:

Avoid contact with oxidizers.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide.

Possibility of Hazardous Reactions:

Will not occur

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XI. Toxicological Information:

N/D

XII. Ecological Information:

N/D

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 empty container and discard in the trash. Do not dump into sewers, on the ground, or into any body of water. Dispose of unused product in accordance with all local, state government and federal laws and regulations.

XIV. Transport Information:**Shipping Name:** Not Available**DOT Hazard Class:** Not Available**UN/NA#:** Not Available**DOT Subsidiary Hazard Class:** Not Available**Packing Group:** Not Available**Transportation Information:**

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

Class: 2.1

UN number: UN1950

International:

ICAO/IATA

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

IMDG

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

EmS: F-D, S-U

XV. Regulatory Information:

SARA 313 Reportable Chemicals:

Aliphatic Hydrocarbon Solvent - 8052-41-3

Xylene 1330-20-7

Ethyl benzene 100-41-4

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 cancer and birth defects or other reproductive harm.

State RTK Chemicals:

Aliphatic Hydrocarbon Solvent - 8052-41-3

Xylene 1330-20-7

Ethyl benzene 100-41-4

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XVI. Other Information:

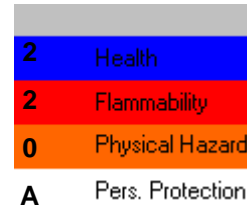
Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture
Hazard Category:
 Acute Chronic Fire Pressure Reactive



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.