

# MSDS - Material Safety Data Sheet

## Product Name: FUEL INDUCTION SYSTEM CLEANER

MSDS No.: SCFSC11

### 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:** 704-684--181 1

**Emergency Contact:** RMPDC (877-740-5015)

**Emergency Telephone Number:** 303-623-5716

**Emergency Restrictions:**

**Product Name:** FUEL INDUCTION SYSTEM CLEANER

**MSDS No.:** SCFSC11

**Issue Date:** 05/01/2013

**Supersedes Date:** 02/05/2010

### II. Hazards Identification:

#### EMERGENCY OVERVIEW

DANGER: FLAMMABLE, HARMFUL OR FATAL IF SWALLOWED, EYE AND SKIN IRRITANT

#### 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: Irritant. Prolonged contact may cause conjunctivitis.

Skin Contact: Irritant. Defatting of tissue, dermatitis may occur.

Inhalation: Irritant to mucous membranes. Repeated exposure may cause narcosis..

Ingestion: HARMFUL OR FATAL IF SWALLOWED.

Repeated over exposure to petroleum naphtha can cause nervous system damage. Prolonged or repeated over exposure to petroleum naphtha can also cause liver and kidney damage.

##### Medical Conditions Generally Aggravated by Exposure:

Central nervous system, liver, and kidney disorders

##### 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
2-Butoxyethoxy-2-ethanol	112-34-5	1.0 - 5.0	
Aliphatic Solvent Naphtha	64742-88-7	1.0 - 5.0	
Diacetone alcohol	123-42-2	1.0 - 5.0	
Naphthalene	91-20-3	0.1 - 1.0	
Petroleum Distillates	64741-86-2	15.0 - 40.0	
Polyolefin amine	Proprietary	1.0 - 5.0	
Solvent Naphtha	64742-89-8	60.0 - 100.0	

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### ***IV. First Aid Measures:***

#### **Emergency and First Aid Procedures:**

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

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

#### **Note to Physicians:**

N/E

### ***V. Fire Fighting Measures:***

#### **Suitable Extinguishing Media:**

Water Fog, Foam, Carbon Dioxide, Dry Chemical

#### **Unsuitable Extinguishing Media:**

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

#### **Products of Combustion:**

Smoke, carbon monoxides, carbon dioxide, aldehydes and other products of incomplete combustion.

#### **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:**

Handling: Use with adequate ventilation and proper protective equipment.

Do not use near fire, sparks, or flame. Wash thoroughly after handling. 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!

#### **Storage Precautions:**

Store in cool, well ventilated area below 120°F away from heat sources. Avoid contact with acids, reducing and oxidizing agents. Keep containers tightly closed.

### ***VIII. Exposure Controls/Personal Protection:***

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Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Petroleum Distillates	Not Available	Not Available	Not Available
Naphthalene	10 ppm	10 ppm	Not Available
Diacetone alcohol	50 ppm	50 ppm	Not Available
2-Butoxyethoxy-2-ethanol	N/E	N/E	35 ppm
Solvent Naphtha	300 ppm	300 ppm	Not Available
Polyolefin amine	N/E	N/E	Not Available
Aliphatic Solvent Naphtha	2000 mg/m3	N/E	Not Available

**Engineering Controls:**

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

**Personal Protective Equipment:**

For prolonged contact with the product wear protective gloves: Neoprene coated cotton gloves or Nitrile rubber chemical gloves. Eye Protection: Safety glasses. For bulk use chemical splash goggles. Other Protective Clothing: Impervious clothing and rubber boots. Long sleeves, long pants, rubber apron. Other Protective Equipment: Emergency Eye Wash Fountain.

**IX. Physical and Chemical Properties:****Boiling Point:** 246°F**Boiling Range:** Not Available**Solubility In Water:** Insoluble**Flash Point:** > 50°F**Odor Threshold:** Not Available**Vapor Density (AIR = 1):** N/D**pH Range:** Not Available**Decomposition Temp:** Not Available**Lower Explosive Limit:** N/D**Specific Gravity (H2O = 1):** 0.89**Other Information:** N/E**Melting Point:** N/A**Freezing Point:** Not Available**Evaporation Rate (Butyl Acetate = 1):** N/D**Flash Point Method:** TCC**Appearance and Odor:** Light amber with petroleum odor**Vapor Pressure (mm Hg.):** N/D**Partition Coefficient:** Not Available**Auto-Ignition Temp:** Not Available**Upper Explosive Limit:** N/D**X. Stability and Reactivity:****Stability:**

Stable

**Conditions to Avoid:**

Do not use near fire, sparks, or flame

**Incompatible Materials:**

Avoid contact with strong acids, oxidizers, and reducing agents.

**Hazardous Decomposition Products:**

Smoke, carbon monoxides, carbon dioxide, aldehydes and other products of incomplete combustion.

**Possibility of Hazardous Reactions:**

Will not occur

**XI. Toxicological Information:**

N/D

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N/D

**XIII. Disposal Considerations:**

DISPOSAL: This container may be recycled in a recycling centers when empty. Before offering for recycling, empty the can or bottle by using the product according to the label. 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:**

DOT Shipping Name: Consumer Commodity

DOT Hazard Class: ORMD

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

**ICAO/IATA (US):**

Petroleum Products, n.o.s. (Solvent Naphtha)

Polyether Amine, Naphthalene)

Class: 3

UN number: UN1268

PG: II

Marine pollutant (Hydrocarbon Solvent,

**International:**

ICAO/IATA:

UN number: UN1268

Petroleum Products, n.o.s. (Solvent Naphtha)

Polyether Amine, Naphthalene)

Class: 3

PG: II

Marine pollutant (Hydrocarbon Solvent,

**IMDG:**

UN number: 1268

Petroleum Products, n.o.s. (Solvent Naphtha)

Polyether Amine, Naphthalene)

Class: 3

PG: II

EmS: F-E, S-E

Marine pollutant (Hydrocarbon Solvent,

**XV. Regulatory Information:**

SARA 313 Reportable Chemicals.

Naphthalene (91-20-3)

2-Butoxyethoxy-2-ethanol (112-34-5)

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

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

**State RTK Chemicals:**

Naphthalene (91-20-3)

Diacetone Alcohol (123-42-2)

Solvent Naphtha (64741-86-2)

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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.

2	Health
4	Flammability
0	Physical Hazard
H	Pers. Protection