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#### MATERIAL SAFETY DATA SHEET

## **SECTION 1: IDENTIFICATION**

Product identifier : AUTO DEODORIZER

Product Use : Neutralizes odors such as mildew, food, smoke and pet odors. Use on carpet, upholstery,

and fabric.

Chemical Family : Mixture.

Manufacturer part no. : DEOD33C

Supplier's name and address: Manufacturer's name and address:

Radiator Specialty Co., of Canada Refer to Supplier

1711 Aimco Blvd. Mississauga, ON, Canada

L4W 1H7

Information Telephone # : (905) 625-9117 (Monday - Friday, 8 AM - 4 PM)

**24 Hr. Emergency Tel #** : 613-996-6666 (CANUTEC)

## SECTION 2 - HAZARDS IDENTIFICATION

Classification : WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of

the criteria for a controlled product provided in Part IV of the Canadian Controlled Products

Regulations (CPR). WHMIS classification:

Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

Labelling: Phrases recommended to appear on a supplier label, can be found in Section 15. WHMIS symbols required on a supplier label:



Emergency Overview : Colourless liquid. Alcohol odour.

WARNING! May be harmful if inhaled. May cause nausea, vomiting, headache and other central nervous system effects. May cause respiratory irritation. Causes eye irritation. Prolonged or repeated skin contact may cause drying and irritation.

## **POTENTIAL HEALTH EFFECTS:**

#### Signs and symptoms of short-term (acute) exposure

Inhalation: May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain,

headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Skin : Direct skin contact may result in little or no irritation.

Eyes: May cause moderate eye irritation. May cause burning sensation, redness and tearing (watering).

Ingestion: May cause irritation of mouth, throat, and stomach. Symptoms may include nausea, vomiting, dizziness,

drowsiness and other symptoms of central nervous system depression.

Effects of long-term (chronic) exposure

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects

: See ECOLOGICAL INFORMATION, Section 12.

#### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	CAS#	Wt.%
Isopropanol (isopropyl alcohol)	67-63-0	1.00 - 5.00
Sodium sulfate	7757-82-6	1.00 - 5.00

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**SECTION 4 - FIRST AID MEASURES** 

Inhalation : Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult,

give oxygen by qualified medical personnel only. Get medical attention.

**Skin contact**: Remove contaminated clothing. Wash off immediately with plenty of water for at least 15

minutes. If irritation persists, seek prompt medical attention.

Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists,

seek prompt medical attention.

Ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get

medical attention.

Notes For Physician : Treat symptomatically. This product is a CNS depressant.

#### **SECTION 5 - FIRE FIGHTING MEASURES**

#### Fire hazards/conditions of flammability

: Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

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Oxidizing properties : None known.

Explosion data: Sensitivity to mechanical impact / static discharge

: Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams,

carbon dioxide and dry chemical.

## Special fire-fighting procedures/equipment

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

#### Hazardous combustion products

: Carbon oxides; Sulphur oxides; Sodium oxides; Other unidentified organic compounds.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict

access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : En

Spill response/cleanup

: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Ventilate area of release. Remove all sources of ignition. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as

required.

**Prohibited materials** : Do not use combustible absorbents, such as sawdust.

## **SECTION 7 - HANDLING AND STORAGE**

Safe Handling procedures : Use in a

: Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Avoid contact with incompatible materials. Wash thoroughly after handling. Keep containers closed when not in use.

Storage requirements

: Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials

: Strong oxidizing agents; Acids; Bases.

Special packaging materials

: Always keep in containers made of the same materials as the supply container.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits					
	<u>ACGI</u>	H TLV	OSHA PEL		
<u>Ingredients</u>	<u>TWA</u>	<u>STEL</u>	PEL	STEL	
Isopropanol (isopropyl alcohol)	200 ppm	400 ppm	400 ppm	N/Av	
Sodium sulfate	N/Av	N/Av	N/Av	N/Av	

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Ventilation and engineering measures

: Use general or local exhaust ventilation to maintain air concentrations below recommended

exposure limits.

Respiratory protection : None required when used as intended. If the TLV is exceeded, a NIOSH/MSHA-approved

respirator is advised. Advice should be sought from respiratory protection specialists.

Skin protection : Gloves impervious to the material are recommended. Advice should be sought from glove

suppliers. Depending on conditions of use, an impervious apron should be worn.

Eye / face protection : Safety glasses with side-shields or chemical splash goggles.

Other protective equipment : An eyewash station and safety shower should be made available in the immediate working

area

General hygiene considerations

Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, smoke or use cosmetics while working with this product. Remove and wash contaminated clothing before re-use. Wash with soap and water after handling.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: liquidAppearance: colourlessOdour: AlcoholOdour threshold: N/Av

pH : N/Av

Boiling point : 100°C Specific gravity : 1.0 @ 20°C

Melting/Freezing point : N/Av Coefficient of water/oil distribution

: N/Av

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Vapour pressure (mmHg @ 20° C / 68° F) Solubility in water : soluble

: N/Av

Vapour density (Air = 1) : N/Av Evaporation rate (n-Butyl acetate = 1)

: N/Av

Volatile organic Compounds (VOC's) Volatiles (% by weight) : < 2%

: N/Av

Flash point : N/Av

Flash point Method : N/Av Auto-ignition temperature : N/Av Lower flammable limit (% by vol.) Upper flammable limit (% by vol.)

.ower mainmable milit (% by voi.)

N/Av : N/Av

: N/Ap

General Information : No additional information.

## Section 10: STABILITY AND REACTIVITY

Stability and reactivity : Stable under the recommended storage and handling conditions prescribed.

**Hazardous polymerization**: Hazardous polymerization does not occur.

Conditions to avoid : Avoid heat and open flame. Keep away from direct sunlight. Ensure adequate ventilation,

especially in confined areas.

Materials To Avoid And Incompatibility

: Strong oxidizing agents; Acids; Bases

Hazardous decomposition producțș

: None known, refer to hazardous combustion products in Section 5.

#### SECTION 11 - TOXICOLOGICAL INFORMATION

Target organs : Eyes, skin, respiratory system, digestive system, central nervous system.

Routes of exposure : Inhalation: YES Skin Absorption: NO Skin & Eyes: YES Ingestion: YES

**Irritancy**: Moderate eye irritant. May cause mild skin irritation on prolonged contact.

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Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

	LC50(4hr)	LD <sub>50</sub>		
<u>Ingredients</u>	inh, rat	(Oral, rat)	(Rabbit, dermal)	
Isopropanol (isopropyl alcohol)	17 000 ppm	4720 mg/kg	12 890 mg/kg	
Sodium sulfate	N/Av	> 10 000 mg/kg	N/Av	

Carcinogenic status

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects

Not expected to cause reproductive effects.

**Teratogenicity** 

: Isopropanol is no longer considered a developmental toxin. Teratogenic / fetotoxic effects were observed in animals, however the effects were observed in the presence of maternal toxicity or at concentrations where maternal toxicity is expected to occur.

Mutagenicity

: Not expected to be mutagenic in humans.

Epidemiology

: None known or reported by the manufacturer.

Sensitization to material Synergistic materials Not expected to be a skin or respiratory sensitizer.None known or reported by the manufacturer.

other important hazards

: CNS depression may result from extreme exposures.

Conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

## **SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity** 

: The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

## Ecotoxicity data:

La constitución de la constituci	0.0.0	Toxicity to Fish		
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
Isopropanol (isopropyl alcohol)	67-63-0	9640 mg/L (Fathead minnow)	N/Av	None.
Sodium sulfate	7757-82-6	7960 mg/L (Fathead minnow)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Isopropanol (isopropyl alcohol)	67-63-0	1400 mg/L (Daphnia magna)	30 mg/L	None.
Sodium sulfate	7757-82-6	4580 mg/L (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Isopropanol (isopropyl alcohol)	67-63-0	N/Av	N/Av	None.
Sodium sulfate	7757-82-6	N/Av	N/Av	None.

**Mobility**: No data is available on the product itself.

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Persistence : No data is available on the product itself. Contains: Isopropyl alcohol; Inorganic salts

(Sodium sulfate).

Isopropyl alcohol is considered to be readily biodegradable.

The methods for determining biodegradability are not applicable to inorganic substances.

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**Bioaccumulation potential**: No data is available on the product itself.

Other Adverse Environmental effects

: No data is available on the product itself.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7.

Methods of Disposal : Dispose of in accordance with federal, provincial and local hazardous waste laws.

## **SECTION 14: TRANPORT INFORMATION**

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	Not regulated.	not regulated	none	$\bigotimes$
TDG Additional information	None.				

## **SECTION 15 - REGULATORY INFORMATION**

#### **Labelling:**

WARNING! May be harmful if inhaled. May cause nausea, vomiting, headache and other central nervous system effects. May cause respiratory irritation. Causes eye irritation. Prolonged or repeated skin contact may cause drying and irritation.

PRECAUTIONS: Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Avoid contact with incompatible materials. Wash thoroughly after handling. Keep containers closed when not in use. Store in a cool, dry, well ventilated area, away from heat and ignition sources.

FIRST AID: If inhaled, move to fresh air. If breathing stopped, begin artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention. For skin contact, flush with water for at least 15 minutes, while removing contaminated clothing. If irritation persists, seek prompt medical attention. For eye contact, flush with running water for at least 15 minutes. If irritation persists, seek prompt medical attention. If ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Refer To Material Safety Data Sheet for further information.

#### Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

## **US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

## **SECTION 16 - OTHER INFORMATION**

Legend : ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services CNS: Central Nervous System

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

Inh: Inhalation

LC: Lethal Concentration

LD: Lethal Dose

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MSHA: Mine Safety and Health Administration

N/Ap: Not Applicable N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NOEC: No observable effect concentration

NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

RTECS: Registry of Toxic Effects of Chemical Substances

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

.

References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &

Biological Exposure Indices for 2013.

2. International Agency for Research on Cancer Monographs, searched 2013.

3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2013

(Chempendium, HSDB and RTECs).

4. Material Safety Data Sheets from manufacturer.

5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2013.

## Prepared for:

Radiator Specialty Co. of Canada

1711 Aimco Blvd.

Mississauga, ON, Canada, L4W 1H7

Telephone: 905-625-9117 (Mon. - Fri., 8 AM - 4 PM) Please direct all enquiries to Radiator Specialty.

# Prepared by:

ICC The Compliance Center Inc. <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a>



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#### DISCLAIMER OF LIABILITY

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12. ECOLOGICAL INFORMATION.

END OF DOCUMENT