



MATERIAL SAFETY DATA SHEET

ROC HIGH PERFORMANCE REFLOW OVEN CLEANER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME ROC HIGH PERFORMANCE REFLOW OVEN CLEANER
PRODUCT NO. MCC-ROC, MCC-ROCG, MCC-ROCP, MCC-ROCD
SUPPLIER MICROCARE CORPORATION
595 John Downey Drive
New Britain, CT 06051
United States of America
CAGE: OATV9
+1 860-827-0626
+1 860-827-8105
techsupport@microcare.com
EMERGENCY TELEPHONE CHEMTREC (800) 424-9300

2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product is not flammable. Colourless liquid. Slight odor. May irritate eyes and skin. Keep out of the reach of children.

HUMAN HEALTH

Prolonged skin contact may cause redness, irritation and dry skin. Mild dermatitis, allergic skin rash.

POTENTIAL HEALTH EFFECTS

INHALATION

Vapors may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

INGESTION

May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.

SKIN CONTACT

Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

EYE CONTACT

May cause temporary eye irritation.

MEDICAL SYMPTOMS

High concentrations of vapors may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %
2-AMINO-2-METHYLPROPANOL	204-709-8	124-68-5	1-5%
D.I. WATER		7732-18-5	90-100%

4 FIRST-AID MEASURES

GENERAL INFORMATION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Place unconscious person on the side in the recovery position and ensure breathing can take place. Perform artificial respiration if breathing has stopped.

INHALATION

Move into fresh air and keep at rest. If respiratory problems, artificial respiration/oxygen.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water (200-300 ml). Consult a physician for specific advice.

SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water.

ROC HIGH PERFORMANCE REFLOW OVEN CLEANER

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Consult a physician for specific advice.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Containers close to fire should be removed immediately or cooled with water.

UNUSUAL FIRE & EXPLOSION HAZARDS

Closed containers can burst violently when heated, due to excess pressure build-up.

SPECIFIC HAZARDS

Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

FLAMMABILITY LIMIT - LOWER(%) N/A

FLAMMABILITY LIMIT - UPPER(%) N/A

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Warn everybody of potential hazards and evacuate if necessary. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level.

ENVIRONMENTAL PRECAUTIONS

Contain spillages with sand, earth or any suitable adsorbent material. Avoid release to the environment.

SPILL CLEAN UP METHODS

Large quantities should not be discharged into the drain but removed with absorbing material. Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

7 HANDLING AND STORAGE

HANDLING

Provide good ventilation. Avoid inhalation of vapors/spray and contact with skin and eyes.

STORAGE

Store in tightly closed original container in a dry, cool and well-ventilated place.

STORAGE CLASS

The product is non-combustible.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

RESPIRATORY EQUIPMENT

Vapors are heavier than air and may travel along the floor and in the bottom of containers. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Self-contained breathing apparatus with full facepiece.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves.

EYE PROTECTION

Wear approved, tight fitting safety glasses where splashing is probable. If risk of splashing, wear safety goggles or face shield.

ROC HIGH PERFORMANCE REFLOW OVEN CLEANER

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. When using do not eat, drink or smoke.

SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear liquid.
COLOR	Colourless.
ODOR	Mild.
VOLATILITY DESCRIPTION	Volatile
SOLUBILITY	Soluble in water.
Flammability	This product is not flammable.
BOILING POINT (°C)	100 - 211 C / 212 - 411 F
VAPOR DENSITY (air=1)	>1
VOLATILE BY VOL. (%)	100
pH-VALUE, DILUTED SOLUTION	10.9 1 %

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed. Avoid contact with acids.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Alkali metals. Acids - organic. Alkali earth metals. Non-metallic halogen. Acid anhydrides.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon dioxide (CO₂). Carbon monoxide (CO).

11 TOXICOLOGICAL INFORMATION

Name	2-AMINO-2-METHYLPROPANOL
Name	D.I. WATER

12 ECOLOGICAL INFORMATION

Name	2-AMINO-2-METHYLPROPANOL
	D.I. WATER

13 DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

TRANSPORT NOTES	Not regulated. The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).
	No transport warning sign required.

15 REGULATORY INFORMATION

ROC HIGH PERFORMANCE REFLOW OVEN CLEANER

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
D.I. WATER	DSL	Yes.						

COMPONENT	TSCA 12(b) Export Notification
D.I. WATER	No.

US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPQ	CERCLA-RQ	SARA 313
D.I. WATER	Not Listed	Not Listed	N/A.

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
D.I. WATER	Not Listed

US STATE REGULATIONS

COMPONENT	FDA ESSENTIAL CHEMICAL	FDA PRECURSOR
D.I. WATER	No.	

SARA (311/312) HAZARD CATEGORIES

None.

REGULATORY STATUS (US)

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372. TSCA: The ingredients of this product are on the TSCA Inventory.

REGULATORY REFERENCES

29 CFR 1910.1010 Federal Regulations (OSHA Standard).

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM -WHMIS

LABEL(S) FOR SUPPLY



Materials Causing Other
Toxic Effects.

CONTROLLED PRODUCT CLASSIFICATION

Canadian WHMIS Classification D2B WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION (33)) This product has been classified according to the hazard criteria of the Controlled Product Regulations, and the MSDS contains all required information.

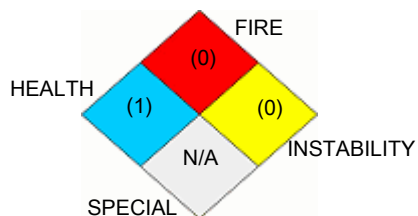
16 OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH	1
FLAMMABILITY	0
PHYSICAL	0
PERSONAL PROTECTION	upervisor

ROC HIGH PERFORMANCE REFLOW OVEN CLEANER

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

REVISION DATE 02/11/2009

VERSION No. 1

SAFETY DATA SHEET STATUS

Approved.

DATE May 27, 2009

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his o