



SAFETY DATA SHEET ROC -REFLOW OVEN CLEANER

1. IDENTIFICATION

Product Name	ROC -REFLOW OVEN CLEANER
Product No.	MCC-ROC, MCC-ROCG, MCC-ROCP, MCC-ROCD
Synonyms, Trade Names	"ROC-HIGH PERFORMANCE REFLOW OVEN CLEANER"
Identified uses	Cleaning agent.
Supplier	MicroCare Corporation 595 John Downey Drive New Britain, CT 06019 United States of America Toll Free: 1-800-638-0125 Tel: 1-860-827-0626 Web: www.MicroCare.com email: techsupport@microcare.com techsupport@microcare.com
Contact Person	
Web Address	www.MicroCare.com
Emergency Telephone	CHEMTREC (800) 424-9300

2. HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW

Slight odor. Clear liquid. Colourless. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Appearance	Clear liquid.
Color	Colourless.
Odor	Mild.

GHS Pictogram
No pictogram required.

Precautionary Statements

P102	Keep out of reach of children.
P410+412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122° F.

GHS Classification

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label



Materials Causing Other
Toxic Effects.

ROC -REFLOW OVEN CLEANER

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.

Human Health

May cause minor irritation on eye contact. The hazardous properties of the product are considered limited. May cause minor irritation on skin contact.

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.

Environment

The product contains volatile, organic compounds which have a photochemical ozone creation potential.

Physical And Chemical Hazards

Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

3. COMPOSITION/INFORMATION ON INGREDIENTS

2-AMINO-2-METHYLPROPANOL	1-5%
CAS No.: 124-68-5	EC No.: 204-709-8
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Aquatic Chronic 3 - H412	
D.I. WATER	90-100%
CAS No.: 7732-18-5	EC No.:
GHS Classification Not classified.	

4. FIRST-AID MEASURES

Description of 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. Consult a physician for specific advice.

Inhalation

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

Ingestion

Never give liquid to an unconscious person. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Place unconscious person on the side in the recovery position and ensure breathing can take place. Get medical attention immediately!

Skin Contact

Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water. Contact physician if irritation continues.

ROC -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. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed

General Information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation

Sore throat. Nausea, vomiting.

Ingestion

Diarrhoea. Drowsiness, dizziness, disorientation, vertigo.

Skin Contact

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

Eye Contact

May cause temporary eye irritation. Profuse watering of the eyes.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

5. FIRE-FIGHTING MEASURES

Flammability Class

This product is not flammable. TCC (Tag closed cup).

Auto Ignition Temperature (°C) Not Flammable

Extinguishing Media

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

Unsuitable extinguishing media

Water spray. Never use water by itself on spillage; this will spread the spill and cause further contamination.

Hazardous combustion products

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific Hazards

Considering the size of the packaging, the risk is regarded as minimal.

Special Fire Fighting Procedures

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

Protective Equipment For Fire-Fighters

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

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. Do not smoke, use open fire or other sources of ignition. Follow precautions for safe handling described in this material safety data sheet. For personal protection, see section 8.

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. Neoprene gloves are recommended.

Reference to other sections

Wear protective clothing as described in Section 8 of this material safety data sheet. See section 11 for additional information on health hazards.

7. HANDLING AND STORAGE

Handling

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

ROC -REFLOW OVEN CLEANER

Storage

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

Storage Class

Unspecified storage. This product is not flammable.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient Comments

WEL = Workplace Exposure Limits

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. Gloves of nitrile rubber, PVA or Viton are recommended.

Eye Protection

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

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene Measures

Avoid inhalation of spray mist and contact with skin and eyes. When using do not eat, drink or smoke. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Skin Protection

Wear apron or protective clothing in case of splashes.

Thermal hazards

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid.
Color	Colourless.
Odor	Mild.
Solubility	Soluble in water.
Initial boiling point and boiling range	97 C / 208 F
Bulk Density	0.99 g/cm ³
Vapor density (air=1)	>1
Vapor pressure	31.00 mbar
pH-Value, Diluted Solution	10.0 1 %
Auto Ignition Temperature (°C)	Not Flammable
Volatility Description	Volatile
Volatile By Vol. (%)	100%
Volatile Organic Compound (VOC)	50 g/litre
Flammability	This product is not flammable.

10. STABILITY AND REACTIVITY

Reactivity

No specific reactivity hazards associated with this product.

ROC -REFLOW OVEN CLEANER

Stability

Stable under normal temperature conditions and recommended use.

Hazardous Polymerisation

Will not polymerise.

Conditions To Avoid

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

Materials To Avoid

Avoid contact with strong oxidizers. Nitric acid (HNO₃). Sulfuric acid (H₂SO₄). Aldehydes. Acids -organic, halogenated.

Hazardous Decomposition Products

When heated, toxic and corrosive vapors/gases may be formed. Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO₂). Carbon monoxide (CO).

11. TOXICOLOGICAL INFORMATION

Toxicological Information on Ingredients:

2-AMINO-2-METHYLPROPANOL (CAS: 124-68-5)

D.I. WATER (CAS: 7732-18-5)

12. ECOLOGICAL INFORMATION

Ecotoxicity

There are no data on the ecotoxicity of this product.

Acute Fish Toxicity

Not considered toxic to fish.

Degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Mobility:

No data available.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances. No data available.

Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

Waste Management

Refer to manufacturer/supplier for information on recovery/recycling. 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. Recover and reclaim or recycle, if practical.

14. TRANSPORT INFORMATION

General

Not regulated. The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).

Transport Labels

No transport warning sign required.

Environmentally Hazardous Substance/Marine Pollutant

No.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes

Not applicable. No information required.

15. REGULATORY INFORMATION

ROC -REFLOW OVEN CLEANER

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.

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed.

SARA 313 Emission Reporting

None of the ingredients are listed.

CAA Accidental Release Prevention

None of the ingredients are listed.

FDA – Precursor Chemical

None of the ingredients are listed.

SARA (311/312) Hazard Categories

None.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

Massachusetts "Right To Know" List

The following ingredients are listed.

2-AMINO-2-METHYLPROPANOL

Rhode Island "Right To Know" List

None of the ingredients are listed.

Minnesota "Right To Know" List

None of the ingredients are listed.

New Jersey "Right To Know" List

The following ingredients are listed.

2-AMINO-2-METHYLPROPANOL

Pennsylvania "Right To Know" List

The following ingredients are listed.

2-AMINO-2-METHYLPROPANOL

International Inventories

Canada – DSL/NDSL

All ingredients are listed or exempt.

US - TSCA

All ingredients are listed or exempt.

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

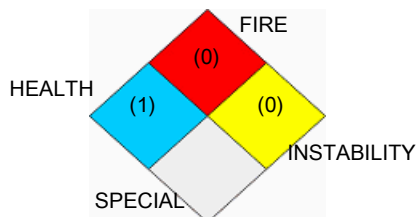
16. OTHER INFORMATION

ROC -REFLOW OVEN CLEANER

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH	1
FLAMMABILITY	0
PHYSICAL	0
PERSONAL PROTECTION	A

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



Revision Comments

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

Revision Date	09/16/2013
Revision	8
Supersedes Date	07/31/2013
Sds No.	BULK_ROC
Material Safety Data Sheet Status	Approved.
Date	16 September 2013

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 own particular use.