

SAFETY DATA SHEET ROC - REFLOW OVEN CLEANER

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name ROC - REFLOW OVEN CLEANER

Product number MCC-ROC, 173012, MCC-ROCG, MCC-ROCD, MCC-ROCL, MCC-ROCGL,

MCC-ROCGG

Synonyms; trade names "ROC-HIGH PERFORMANCE REFLOW OVEN CLEANER"

Recommended use of the chemical and restrictions on use

Application Cleaning agent.

Details of the supplier of the safety data sheet

Supplier

MICROCARE CORPORATION

Manufacturer

MICROCARE CORPORATION

595 John Downey Drive New Britain, CT 06051 United States of America

CAGE: OATV9

techsupport@microcare.com Tel: +1 860-827-0626 Fax: +1 860-827-8105

Emergency telephone number

Emergency telephone CHEMTREC 1-800-424-9300 (within the U.S.)

+1 703-741-5970 (from anywhere in the world)

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status This Product is Not Hazardous under the OSHA Hazard Communication Standard.

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Human health May be slightly irritating to eyes. The product is considered to be a low hazard under normal

conditions of use. May be slightly irritating to skin.

Environmental The product contains volatile organic compounds (VOCs) which have a photochemical ozone

creation potential.

Physicochemical Not considered to be a significant hazard due to the small quantities used.

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ROC - REFLOW OVEN CLEANER

Label elements

Hazard statements NC Not Classified

Supplemental label

information

Safety data sheet available on request. For use in industrial installations only.

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

D.I. WATER 60-100%

CAS number: 7732-18-5

Classification
Not Classified

2-AMINO-2-METHYLPROPANOL

1-5%

CAS number: 124-68-5

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Aquatic Chronic 3 - H412

The full text for all hazard statements is displayed in Section 16.

Composition comments The exact percentage (concentration) of composition has been withheld as a trade secret in

accordance with paragraph (i) of CFR 1900.1200 TSCA: The ingredients of this product are

on the TSCA Inventory.

Composition

4. First-aid measures

Description of first aid measures

General information Never give anything by mouth to an unconscious person. Do not induce vomiting. Place

unconscious person on the side in the recovery position and ensure breathing can take place.

If breathing stops, provide artificial respiration. Consult a physician for specific advice.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. When breathing is difficult, properly trained personnel may assist affected person

by administering oxygen. Get medical attention.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting

occurs, the head should be kept low so that vomit does not enter the lungs. Place unconscious person on their side in the recovery position and ensure breathing can take

place. Get medical attention immediately.

Skin Contact Wash skin thoroughly with soap and water. Remove contaminated clothing and rinse skin

thoroughly with water. Get medical attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. 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 dependent on the concentration and the

length of exposure.

Inhalation Sore throat. Nausea, vomiting.

Ingestion Diarrhea. Drowsiness, disorientation, vertigo.

Skin contact Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

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

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media

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

contamination.

Special hazards arising from the substance or mixture

Flammability Class The product is not flammable. TCC (Tag closed cup).

Specific hazards Considering the size of the packaging, the risk is regarded as minimal. No unusual fire or

explosion hazards noted.

Hazardous combustion

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapors. Oxides of carbon. Oxides of nitrogen.

Advice for firefighters

Protective actions during

firefighting

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

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation.

Avoid inhalation of vapors. Use approved respirator if air contamination is above an

acceptable level. No smoking, sparks, flames or other sources of ignition near spillage. Follow precautions for safe handling described in this safety data sheet. For personal protection, see

Section 8.

Environmental precautions

Environmental precautions Contain spillage with sand, earth or other suitable non-combustible material. Avoid release to

the environment.

Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Do not discharge into drains or

watercourses or onto the ground. Contain and absorb spillage with sand, earth or other non-combustible material. Collect spillage with a shovel and broom, or similar and reuse, if

possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. It is recommended that gloves are made

of the following material: Neoprene.

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11

for additional information on health hazards.

7. Handling and storage

Precautions for safe handling

Usage precautions Provide adequate ventilation. Avoid inhalation of vapors/spray and contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

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

Storage class Unspecified storage. The product is not flammable.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

Reference to other sections. Store away from incompatible materials (see Section 10).

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Additional Occupational

Exposure Limits

Ingredient comments WEL = Workplace Exposure Limits

Exposure controls

Protective equipment





Appropriate engineering controls

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber).

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Wear

apron or protective clothing in case of contact.

Hygiene measures

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

Respiratory protection

Vapors are heavier than air and may travel along the floor and accumulate in the bottom of containers. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear self-contained breathing apparatus with full facepiece.

Thermal hazards

Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapors.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Clear liquid.

Color Colorless.

Odor Mild.

Odor threshold No information available.

pH No information available.

Melting point No information available.

Initial boiling point and range 97°C/208°F @ 101.3 kPa

Flash point The product is not flammable.

Evaporation rate

No information available.

Evaporation factor

No information available.

Flammability (solid, gas)

No information available.

Upper/lower flammability or

explosive limits

No information available.

Other flammability No information available.

Vapor pressure 3.1 kPa @ 25°C

Vapor density >1

Relative density 0.99 g/cm3

Bulk density Not applicable.

Solubility(ies) Soluble in water.

Partition coefficient No information available.

Auto-ignition temperature No information available.

Decomposition Temperature No information available.

Viscosity No information available.

Explosive properties No information available.

Refractive index No information available.

Particle size Not applicable.

Molecular weight Not applicable.

Volatility 100%

Saturation concentration No information available.

Critical temperature No information available.

Volatile organic compound This product contains a maximum VOC content of 50 g/litre.

Flammability The product is not flammable.

10. Stability and reactivity

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Reactivity There are no known reactivity hazards associated with this product.

Stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

Will not polymerize.

Conditions to avoid Keep away from heat, sparks and open flame. Thermal decomposition or combustion

products may include the following substances: Toxic and corrosive gases or vapors.

Materials to avoid Avoid contact with strong oxidizing agents. Nitric acid (HNO3). Sulfuric acid (H2SO4).

Aldehydes. Acids -organic, halogenated.

Hazardous decomposition

products

Heating may generate the following products: Toxic and corrosive gases or vapors.

Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO2). Carbon monoxide

(CO).

11. Toxicological information

Information on toxicological effects

Inhalation Vapors may irritate throat/respiratory system. A single exposure may cause the following

adverse effects: Coughing. Difficulty in breathing.

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

intoxication.

Skin Contact Product has a defatting effect on skin. May cause allergic contact eczema.

Eye contact May cause temporary eye irritation.

Medical Symptoms Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following

overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

12. Ecological Information

Ecotoxicity There are no data on the ecotoxicity of this product.

Toxicity Not considered toxic to fish.

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No information available.

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

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General information Refer to manufacturer/supplier for information on recovery/recycling. Waste should be treated

as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the

requirements of the local Waste Disposal Authority.

Disposal methodsDispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Reuse or recycle products wherever possible.

14. Transport information

General Not regulated. The product is not covered by international regulations on the transport of

dangerous goods (IMDG, IATA, DOT).

UN Number

Not applicable. No information required.

UN proper shipping name

Not applicable. No information required.

Transport hazard class(es)

Not applicable. No information required.

Transport labels

No transport warning sign required.

Packing group

Not applicable. No information required.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable. No information required.

Transport in bulk according to Not applicable. No information required.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

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

Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Not listed.

SARA 313 Emission Reporting

Not listed.

CAA Accidental Release Prevention

Not listed.

SARA (311/312) Hazard Categories

None

OSHA Highly Hazardous Chemicals

Not listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Not listed.

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

Not listed.

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

Not listed.

California Directors List of Hazardous Substances

Not listed.

Massachusetts "Right To Know" List

2-AMINO-2-METHYLPROPANOL

Present.

Rhode Island "Right To Know" List

Not listed.

Minnesota "Right To Know" List

Not listed.

New Jersey "Right To Know" List

2-AMINO-2-METHYLPROPANOL

Present.

Pennsylvania "Right To Know" List

2-AMINO-2-METHYLPROPANOL

Present.

Inventories

Canada - DSL/NDSL

Yes

US - TSCA

All ingredients are listed.

16. Other information

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

Revision date 3/16/2017

Revision 25

Supersedes date 11/28/2016
SDS No. BULK - ROC
SDS status Approved.

Hazard statements in full H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

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.