

SAFETY DATA SHEET

Conforms to 1910.1200
Issued: April 14, 2016
Supersedes: May 15, 2015

RESTART

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Restart Fast Acting Floor Stripper **Product Number:** AKR5
Recommended Use: Non-ammoniated, ultra high performance stripper
Concentrate- dilute prior to use.
Product intended for commercial and industrial use only.
Uses Advised Against: Other than per labelled instructions

Supplier Address:

Arkad LLC
PO Box 98
Avon by the sea, NJ 07717
Telephone: 888-647-0067
Internet: www.ArkadBrand.com

FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.
Within USA and Canada 1-800-424-9300. Outside USA and Canada 1-703-527-3887 (collect calls accepted)

2: HAZARDS IDENTIFICATION

Classification: Skin Corrosion- Category 1B
Eye Damage - Category 1
Acute Toxicity - Inhalation - Category 4

Signal Word: DANGER

Pictogram:



Hazard Statements:

Causes severe skin burns and eye damage.
Causes serious eye damage.
Harmful if inhaled.

Precautionary Statements:

Do not breathe mist/vapours/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/eye protection/face protection.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulation.
Immediately call a POISON CENTER/doctor if you feel unwell.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other Hazards: None known

Supplemental Information: None known

3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Weight % *
ethylene glycol monobutyl ether	111-76-2	30 - 60
monoethanolamine	141-43-5	10 - 30

* Exact concentration of the ingredients has been withheld as a trade secret.

SAFETY DATA SHEET

Conforms to 1910.1200
Issued: April 14, 2016
Supersedes: May 15, 2015

RESTART

4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

- Eye Contact:** In case of contact, immediately flush eye with plenty of water for at least 15 minutes. (If easy to do, remove contact lenses, if worn). Seek medical attention.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention.
- Inhalation:** If breathing is difficult. Remove subject to fresh air. Seek medical attention immediately.
- Ingestion:** Call a physician or poison control center. Do not induce vomiting. Seek medical advice immediately.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye Contact:** Causes eye burns.
- Skin Contact:** Causes skin burns.
- Inhalation:** Harmful if inhaled. May cause irritation and corrosive effects to nose, throat and respiratory tract.
- Ingestion:** Harmful if swallowed. May cause burns to mouth, throat and stomach.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing media:** Water spray, CO₂, dry chemical, alcohol-type or universal type foams
- Specific Hazards:** Corrosive liquid. (See Sections 8 and 10.) Do not spray a solid stream of water or foam directly in hot liquid. This may cause frothing.
- Protective Equipment and Precautions:** Fire fighters should wear NIOSH approved breathing apparatus. Materials can splatter above 100° C / 212° F

6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Put on personal protective equipment (see Section 8). Keep spectators away. Floors may be slippery: use care to avoid falling.
- Environment Precautions:** Keep spills and cleaning run-off out of sewers and open bodies of water.

CONTAINMENT AND CLEAN-UP

- Small Spills:** Absorb spill with inert material (e.g. sand, earth) and dispose of as waste material in accordance with local, state and federal regulations.
- Large Spills:** Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal.
- Waste Disposal:** Landfill or incinerate the contaminated solids and diking material in accordance with local, state and federal regulations. Non-salvageable liquid should be drummed and disposed of in accordance with local, state and federal regulations.

7: HANDLING AND STORAGE

- Precautions for Safe Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapors or mists. Remove and wash contaminated clothing and footwear before re-use.
- Conditions for Safe Storage:** Storage temperature (Max. 60°C/140°F - Min. 1°C/34°F)
- Other Information:** Keep from freezing. Keep container sealed when not in use. Keep out of reach of children.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Ingredient	CAS Number	ACGIH		OSHA	
		TWA	STEL	TWA	STEL
ethylene glycol monobutyl ether	111-76-2	20 ppm (BEI)	N/L	50 ppm (skin)	N/L
monoethanolamine	141-43-5	3 ppm	6 ppm	3 ppm	N/L

SAFETY DATA SHEET

Conforms to 1910.1200
Issued: April 14, 2016
Supersedes: May 15, 2015

RESTART

Engineering Controls: Use only with adequate ventilation. Use local ventilation and other engineering controls to maintain airborne contaminants below established and recommended exposure limits. If this product contains ingredients with exposure limits, monitoring may be required to determine the effectiveness of ventilation and other control measures.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety eyewear is recommended, to avoid chemical splashes and mists.
Skin Protection: Chemical resistant gloves are recommended.
Respiratory Protection: Respiratory protection should be worn when there is a potential of inadequate ventilation. If exposure limits are exceeded or symptoms are experienced, use an approved respirator.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear liquid
Odor: floral fragrance
Odor Threshold: N/E
pH: 11.5
Freezing Point: N/E
Boiling Point: N/E
Flash Point: > 200°F / > 93°C (ASTM D56)
Evaporation Rate: less than water
Flammability: not combustible
Flammability limits: N/E
Vapor Pressure: N/E
Vapor Density: N/E
Relative Density: 8.0 lb/gal @ 68°F / 0.96 kg/l @ 20°C
Solubility: miscible in water
Partition Coefficient: N/E
Auto Ignition temperature: N/E
Decomposition Temperature: N/E
Viscosity: < 10 cps @ 68°F
VOC: 54% (as supplied), 10.6% (1:4), 5.8% (1:8), 3.1% (1:16)

10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.
Stability: Stable under normal conditions.
Hazardous reactions: Adding water directly to the product may generate heat and cause product to splash. To avoid adverse reaction, always add product to water, do not add water to product.
Conditions to avoid: Improper order of dilution
Incompatible materials: Strong acids and oxidizing agents
Hazardous decomposition products: carbon monoxide, carbon dioxide and nitrogen oxides

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.

LOCAL EFFECTS

Skin contact: Corrosive
Eye contact: Corrosive
Sensitization: None expected
Chronic effects: None expected

SPECIFIC EFFECTS

Carcinogenicity: None known
Reproductive effects: None known
Teratogenicity: None known
Mutagenicity: None known

COMPONENT INFORMATION

Component	LD50 Oral- Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC ₅₀ Inhalation- Rat (mg/l)
ethylene glycol monobutyl ether	470	220	2.21 (4hr)
monoethanolamine	1720	1025	N/A

SAFETY DATA SHEET

Conforms to 1910.1200
 Issued: April 14, 2016
 Supersedes: May 15, 2015

RESTART

Carcinogenicity:

Component	IARC	NTP	OSHA
ethylene glycol monobutyl ether	IARC 3	N/L	N/L

12: ECOLOGICAL INFORMATION

Ecotoxicity: Ecological testing has not been completed on the mixture.
Persistence and Degradability: Data not available.
Bioaccumulative Potential: Data not available.
Mobility in Soil: Data not available.
Other Adverse Effects: Data not available.

13: DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, regional and national regulations.

14: TRANSPORT INFORMATION

UN Number: UN1760
UN Proper Shipping Name: Corrosive liquid, n.o.s. (ethanolamine)
Hazard Class: 8
Packing Group: II
Marine Pollutant: None
Transport in Bulk: N/A
Other Information: Package Volumes < 1L are shipped under Limited Quantity Exemption.

15: REGULATORY INFORMATION

U.S. REGULATIONS/REPORTING:

Ingredient	CAS Number	SARA 302/304	SARA 313	CERCLA
ethylene glycol monobutyl ether	111-76-2	N/L	1.00%	N/L

STATE RIGHT-TO-KNOW STATUS:

Ingredient	CAS Number	MA - RTK	NJ - RTK	PA - RTK	RI - RTK
ethylene glycol monobutyl ether	111-76-2	present	present	present	present
monoethanolamine	141-43-5	present	present	present	present

CALIFORNIA PROPOSITION 65: Components are not present on CA Prop 65 listing.


16: OTHER INFORMATION

Abbreviations Used:

N/A - Not applicable
 N/E - Not Established
 N/L - Not Listed
 IARC 3 - Unclassifiable as to carcinogenicity in humans.

Revision Information:

April 14, 2016 - Revised product name, number and supplier details


Health: 3
Flammability: 0
Reactivity: 0

SAFETY DATA SHEET

Conforms to 1910.1200

Issued: April 14, 2016

Supersedes: May 15, 2015

RESTART

Neither this data sheet nor any statement contained herein grants or extends any license, expressed or implied, in connection with patents issued or pending which may be the property of the manufacturer or others. The information in this data sheet has been assembled by the manufacturer based on its own studies and the work of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) or the vendee, the vendee's employees or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnish of such information.

This SDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

****IMPORTANT SAFETY INFORMATION**DO NOT DISCARD**PLEASE ROUTE TO COMPANY SAFETY OFFICER****