

1 Identification

GHS Product Identifier

Ultra-Flex RCI-A Metal Primer

Other means of identification

Rust Converting Primer- Alkyd
Alkyd Rust Inhibitor

Recommended use of the chemical and restriction on use

Metal Primer

Supplier's details

Lava-Liner, Ltd.
1550 G Tiburon Blvd. Suite 418
Tiburon, CA 94920
Ph. 415-829-9114 Fax: 415-829-9203
www.lava-liner.com

Emergency phone number

Chemtrec 800-424-9300

2 Hazard(s) identification

Classification of the substance or mixture

Flammable Liquid, Category 2

GHS label elements

Danger



Highly flammable liquid and vapour

Harmful if swallowed, in contact with skin or if inhaled

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

May cause drowsiness or dizziness

Read label before use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use non-sparking tools.

Take action to prevent static discharges.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 Wash skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Use personal protective equipment as required.

Other hazards which do not result in classification

Hazard Statements

H225 Highly flammable liquid and vapor.
 H302 Harmful if swallowed.
 H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233: Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ eye protection/ face protection.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Methyl propyl ketone	107-87-9	203-528-1	30 - 40	TLV 200 ppm / PEL 200 ppm
2-Butoxyethanol	111-76-2	203-905-0	1 - 5	TLV 50 ppm / PEL 25 ppm
neodecanoic acid, cobalt salt	27253-31-2	248-373-0	0.1 - 0.2	No Data Available
Acetone	67-64-1		15 - 25	TLV 750 ppm / PEL 1000 ppm
1,10-Phenanthroline	66-71-7	200-629-2	0.1 - 0.5	TLV 25 ppm / PEL 25 ppm

4 First-aid measures

Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
 P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Most important symptoms/effects, acute and delayed

H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Indication of immediate medical attention and special treatment needed, if necessary

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
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5 Fire-fighting measures

Suitable extinguishing media

P370 + 378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Specific hazards arising from the chemical

Flash Point: <40F SETA CC

Flammable Limits:

Upper: 1.7%

Lower: 12.8%

Treat as extremely flammable liquid. Vapors can cause flash fire.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Use water spray to cool unopened containers.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter sewers, storm drains, lakes, rivers and potable water sources.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

7 Handling and storage

Precautions for safe handling

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

8 Exposure controls/personal protection

Control parameters

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Component	CAS-No.	Value	Control parameters	Basis
Acetone	67-64-1	TWA	500 ppm	USA. ACGIH Threshold Limit Values (TLV)
Methyl propyl ketone	107-87-9	STEL	150 ppm	US. ACGIH Threshold Limit Values (01 2010)
		PEL	200 ppm	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m ³	NIOSH REL
		TWA	50 ppm 240 mg/m ³	OSHA Z-1
		TWA	25 ppm 120 mg/m ³	OSHA P0

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

Individual protection measures

Body Protection

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9 Physical and chemical properties

Physical and chemical properties

Appearance Physical State:	Liquid
Form:	Liquid
Color:	Pigmented Red or Gray
Odor:	Acetone/ketone
pH:	No Data Available
Boiling Point:	101 °C
Flash Point:	-17 °C (Tag closed cup)
Evaporation Rate:	2.3
Flammability Limit - Upper (%)-:	13 %(V)
Flammability Limit - Lower (%)-:	1.56 %(V)
Vapor pressure:	37 mbar (20 °C)
Vapor density (air=1):	2.9
Specific Gravity:	1.3 (20 °C)
Solubility(ies)	
Solubility in Water:	Moderate
Solubility (other):	No data available.
Autoignition Temperature:	465 °C

10 Stability and reactivity

Chemical stability

Stable under designated storage conditions.

Possibility of hazardous reactions

Acetone (Component) the reaction of nitrosyl perchlorate and Acetone ignites and explodes. Explosions occur with mixtures of nitrosyl perchlorate and primary amine [Ann. Chem. 42:2031. 1909]. Reacts violently with nitric acid. Also causes exothermic reaction when in contact with aldehydes.

Conditions to avoid

Excessive heat, poor ventilation, exposure to sources of ignition.

Incompatible materials

Strong oxidizing agents, strong alkalis and/or strong mineral acids.

Hazardous decomposition products

Carbon Dioxide and carbon monoxide when combusted.

11 Toxicological information

Toxicological (health) effects

See Sections 3 and 8 for control parameters and exposure limits.

Information on the likely routes of exposure

Inhalation, ingestion, skin and/or eye contact

Symptoms related to the physical, chemical and toxicological characteristics

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Delayed and immediate effects and also chronic effects from short and long term exposure

H302	Harmful if swallowed.
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Numerical measures of toxicity (such as acute toxicity estimates)

COMPONENT

Acetone

Acute toxicity

LD50 Oral - Rat - 5,800 mg/kg

Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Tremor. Behavioral:Headache.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

LC50 Inhalation - Rat - 8 h - 50,100 mg/m³

Remarks: Drowsiness Dizziness Unconsciousness

LD50 Dermal - Guinea pig - 7,426 mg/kg

No data available

Skin corrosion/irritation

Skin - Rabbit

Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Eye irritation - 24 h

Respiratory or skin sensitisation

- Guinea pig

Result: Does not cause skin sensitisation.

Germ cell mutagenicity

No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

COMPONENT

Methyl Propyl Ketone

Oral LD-50: (Rat): 1,600 mg/kg

Dermal LD-50: (Guinea Pig): > 20 ml/kg

Inhalation LC50 (Rat, 4 h): 25.5 mg/l

Eyes Rabbit, 24 h): moderate

Mutagenicity In Vitro: Salmonella typhimurium assay (Ames test), Bacterial Reverse Mutation Assay : negative +/- activation
Mutagenicity - Mammalian, In vitro Mammalian Cell Gene Mutation Test : negative +/- activation.
Chromosomal aberration, In vitro Mammalian Chromosome Aberration Test : negative +/- activation

Interactive effects

No Data Available

Other information

Contains an IARC (International Agency for Research on Cancer) 2B material. IARC 2B is a classification for possible human carcinogen based on sufficient evidence on carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

12 Ecological information

Toxicity

Acetone

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 5,540 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates LC50 - Daphnia magna (Water flea) - 8,800 mg/l - 48 h

Toxicity to algae Remarks: No data available

Methyl Propyl Ketone

Toxicity to fish - LC-50 (Fathead minnow, 96 h): 1,240 mg/l

Toxicity to algae - NOEC: (Alga, 72 h): 74 mg/l EC-50 (Alga, 72 h): 150 mg/l

Persistence and degradability

Biodegradability Result: 91 % - Readily biodegradable
(OECD Test Guideline 301B)

Bioaccumulative potential

Does Not Bioaccumulate

Mobility in soil

No data available.

Other adverse effects

No Data Available

13 Disposal considerations**Disposal methods**

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

14 Transport information**UN Number**

1210

UN Proper Shipping Name

Paint Related Materials, Flammable Liquid

Transport hazard class(es)

3

Packing group, if applicable

II

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

Reportable Quantity 100 lbs

15 Regulatory information**Safety, health and environmental regulations specific for the product in question****component****Acetone:****SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

TSCA (US Toxic Substances Control Act): All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

California Prop. 65 Components

This product does not contain chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

16 Other information**Other information**

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself.

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. If the product is used as a component in another product other than that provided by Lava-Liner, Ltd. this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).