

## 1. Product and Company Identification

www.rxmarine.com

Product Name Alkaline Safety Liquid Plus  
Part Number RXSOL-20-2005-026

Company Details:....

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
VASHI ,NEW BOMBAY 400703 INDIA

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Website [www.rxmarine.com](http://www.rxmarine.com)

## 2. Composition / Information on ingredients

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### Substances

Synonyms 3-Bromo-1-propene  
Formula  $C_3H_5Br$   
Molecular weight 120,98 g/mol  
CAS-No. 106-95-6  
EC-No. 203-446-6

Component	Classification	Concentration
3-bromo-1-propene		
CAS-No. 106-95-6	Flam. Liq. 2; Acute Tox. 3;	= 0,1 - < 1 %
EC-No 203-446-6	Skin Corr. 1B; Eye Dam.	
.	1; Aquatic Acute 1; H225, H301, H331, H314, H318, H400	
	M-Factor - Aquatic Acute:10	

Index-No. CAS-No.

EC-No.

Index-No.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 3. Hazards Identification

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**Classification of the substance or mixture**

Flammable liquids, (Category 2)  
Eye irritation, (Category 2)  
Skin sensitization, (Category 1)  
Specific target organ toxicity -

single exposure, (Category 3),

Respiratory system

Long-term (chronic) aquatic

hazard, (Category 2)

**Label elements**

Hazard Statements

H225

H317

H319

H335

H411

Precautionary Statements

P210

P233

P273

P280

P303 + P361 + P353

P304 + P340 + P310

P305 + P351 + P338

Supplemental Hazard Statements

**Other hazards**

H225: Highly flammable liquid and vapor.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

Highly flammable liquid and vapor

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause respiratory irritation.

Toxic to aquatic life with long lasting effects.

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

Keep container tightly closed.

Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

none

This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have

endocrine

disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine

disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 4. First Aid Measures

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### Description of first aid measures

#### General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

#### If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.

In exceptional cases only, if medical care is not available within one hour, induce vomiting

(only in persons who are wide awake and fully conscious), administer activated charcoal

(20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed

No data available

## 5. Fire-fighting Measures

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### Extinguishing media

#### Suitable extinguishing media

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### Special hazards arising from the substance or mixture

Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.

In a fire or if heated, a pressure increase will occur and the container may burst, with the

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risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along

the ground. Vapors may accumulate in low or confined areas or travel a considerable

distance to a source of ignition and flash back.

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the ground. Vapors may accumulate in low or confined areas or travel a considerable

distance to a source of ignition and flash back.

Carbon oxides

Hydrogen bromide gas

Flash back possible over considerable distance., Container explosion may occur under fire

conditions.

Combustible.

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

#### **Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### **Further information**

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire

extinguishing water from contaminating surface water or the ground water system.

spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable

training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

## 6. Accidental Release Measures

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**Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**Reference to other sections**

For disposal see section 13.

## 7. Handling and Storage

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### Precautions for safe handling

**Advice on safe handling**

Work under hood. Do not inhale substance/mixture.

**Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions**

Tightly closed. Dry.

**Storage class**

Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

**Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. Exposure controls and personal protection

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**Control parameters**

**Ingredients with workplace control parameters**

**Exposure controls**

**Personal protective equipment**

**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

**Skin protection**

This recommendation applies only to the product stated in the safety data

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sheet,

supplied by us and for the designated use. When dissolving in or mixing with other

substances and under conditions deviating from those stated in EN 16523-1 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: [www.kcl.de](http://www.kcl.de)).

Full contact

Material: Chloroprene

Minimum layer thickness: 0,65 mm

Break through time: 480 min

Material tested:KCL 720 Camapren®

This recommendation applies only to the product stated in the safety data sheet,

supplied by us and for the designated use. When dissolving in or mixing with other

substances and under conditions deviating from those stated in EN 16523-1 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: [www.kcl.de](http://www.kcl.de)).

Splash contact

Material: Latex gloves

Minimum layer thickness: 0,6 mm

Break through time: 60 min

Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M).

Flame retardant antistatic protective clothing.

Recommended Filter type: Filter A-(P3)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory

protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Do not let product enter drains.

## Body Protection

## Respiratory protection

## Control of environmental exposure

# 9. Physical and chemical properties

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## Physical state

liquid

Colour	No data available
Odor	No data available
Melting point/freezing point	Melting point/range: -119 °C
Initial boiling point and boiling range	70 - 71 °C
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	Upper explosion limit: 7,3 %(V)
	Lower explosion limit: 4,4 %(V)
Flash point	-1 °C - c.c.
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
	<b>materials.Extremely flammable in the presence of the following materials or conditions: oxidizing</b>
	<b>materials.</b>
Viscosity	Viscosity, kinematic: No data available
	Viscosity, dynamic: No data available
Water solubility	ca.21,5 g/l at 25 °C - completely soluble
Partition coefficient: n-octanol/water	log Pow: 1,94 - Bioaccumulation is not expected.
Vapor pressure	0,147 hPa at 25 °C
Density	1,034 g/mL at 25 °C - lit.
Relative density	1,03 at 20 °C
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	None
Other safety information	Dissociation constant 10,26 at 25 °C

## 10. Stability and reactivity

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Reactivity	Vapors may form explosive mixture with air.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
	Contains the following stabilizer(s):
	propylene oxide ( 710 mg/m3
	Remarks: (RTECS)
	LD50 Dermal - Rabbit - 301,0 mg/kg
	Remarks: Behavioral:Tremor.
	Gastrointestinal:Changes in structure or function of salivary glands.
	Kidney, Ureter, Bladder:Other changes.
	(ECHA)
	Acute toxicity estimate Dermal - 301 mg/kg
	(ATE value derived from LD50/LC50 value)

<b>Skin corrosion/irritation</b>	Skin - Rabbit
	Result: Causes burns.
	Remarks: (ECHA)
<b>sensitization</b>	Not available
<b>mutagenicity</b>	Not available
<b>Carcinogenicity</b>	Not available
<b>Reproductive toxicity</b>	Not available
<b>Teratogenicity</b>	Not available
<b>Specific target organ toxicity (single exposure)</b>	Not available.
<b>Specific target organ toxicity (repeated exposure)</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Information on the likely routes of exposure</b>	Not available.

## 12. Ecological information

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Persistence and degradability	No data available
Toxicity to fish	Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 75 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Static test EC50 - Daphnia magna (Water flea) - 42,81 mg/l - 48 h (OECD Test Guideline 202) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: maleic acid
Toxicity	Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.520 mg/l - 96 h
Toxicity to bacteria	EC10 - Bacteria - 14 mg/l - 72 h Remarks: (Lit.) EC5 - E.coli - 15.000 mg/l Remarks: (Lit.) (maximum permissible toxic concentration)
Toxicity to algae	Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 74,35 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: maleic acid
Products Biodegradation	The methods for determining the biological degradability are not applicable to inorganic substances.
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	No data available
Other adverse effects	No data available .

## 13. Disposal considerations

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Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
Contaminated packaging	Dispose of as unused product.
Waste treatment Method	See <a href="http://www.retrologistik.com">www.retrologistik.com</a> for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

## 14. Transport information

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UN number	ADR/RID:1099 IMDG:1099 IATA: 1099
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UN proper shipping name	ADR/RID: ALLYL BROMIDE
	IMDG: ALLYL BROMIDE
	IATA: Allyl bromide
	Passenger Aircraft: Not permitted for transport
Transport hazard class(es)	ADR/RID: 3 (6.1) IMDG: 3 (6.1) IATA:3 (6.1)
Packaging group	ADR/RID: I IMDG: I IATA:I
Environmental hazards	ADR/RID: yes IMDG Marine pollutant: yes IATA: no
Special precautions for user	
Tunnel restriction code	
Further information	(C/E)
	No data available

## 15. Regulatory information

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### Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

### Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

## 16. Other information

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### Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

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