# chemball.com MATERIAL SAFETY DATA SHEET

Version 4.4 Revision Date 07/02/2014 Print Date 08/08/2017

			Print Date 08/08/2017
1. PR	ODUCT AND COMPANY IDE	NTIFICATION	
1.1	Product identifiers		
	Product name	Propionyl bromide	
	040 N		
		598-22-1	
1.2		the substance or mixture and uses advised against	
	Identified uses	: Laboratory chemicals, Manufacture of substances	
1.3	Details of the supplier of th	e safety data sheet	
	1314, Jinjun plaza, Shuix	BALL (HANGZHOU) CO.,LTD kiang Road,Hangzhou,China,310020 2,FAX:0086-571-86539526	
1.4	Emergency telephone num	ber Charles and Charle	
	Emergency Phone #	: +1-703-527-3887 (CHEMTREC)	
2. HA	ZARDS IDENTIFICATION		
2.1	Classification of the substa	nce or mixture	
	GHS Classification in accorr Flammable liquids (Category Skin corrosion (Category 1B) Serious eye damage (Category	H314	
	For the full text of the H-State	ments mentioned in this Section, see Section 16.	
2.2	GHS Label elements, includ	ing precautionary statements	
	Pictogram		
	Signal word	Danger	
	Hazard statement(s) H226 H314	Flammable liquid and vapour. Causes severe skin burns and eye damage.	
	Precautionary statement(s) P210 P233 P240 P241	Keep away from heat/sparks/open flames/hot surfaces No sm Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment.	noking.
	P242 P243 P264 P280	Use only non-sparking tools. Take precautionary measures against static discharge. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face	)

protection.

P301 + P330 + P331 P303 + P361 + P353	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P321	Specific treatment (see supplemental first aid instructions on this label).
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235 P405	Store in a well-ventilated place. Keep cool. Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS** Reacts violently with water.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.1 Substances

:	C <sub>3</sub> H <sub>5</sub> BrO
:	136.98 g/mol
:	598-22-1
:	209-924-0
	:

## Hazardous components

Component	Classification	Concentration
Propionyl bromide	<u> </u>	
	Flam. Liq. 3; Skin Corr. 1B; Eye Dam. 1; H226, H314	-

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

# 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

## If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 4.2 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

# **4.3** Indication of any immediate medical attention and special treatment needed no data available

## **5. FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable extinguishing media Dry powder

- **5.2** Special hazards arising from the substance or mixture Carbon oxides, Hydrogen bromide gas
- **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information no data available

# 6. ACCIDENTAL RELEASE MEASURES

6.1 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 in low areas. For personal protection see section 8.

- 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- 6.3 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 (see section 13). Do not flush with water.
- 6.4 Reference to other sections

For disposal see section 13.

# 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Never allow product to get in contact with water during storage.

## 7.3 Specific end use(s)

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

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

**Components with workplace control parameters** Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

## Appropriate engineering controls

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

## Personal protective equipment

## **Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, 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 ABEK (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).

#### Control of environmental exposure

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

9.2

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: dark brown
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	103 - 104 °C (217 - 219 °F) - lit.
g)	Flash point	52 °C (126 °F) - closed cup
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
I)	Vapour density	no data available
m)	Relative density	1.521 g/cm3 at 25 °C (77 °F)
n)	Water solubility	no data available
o)	Partition coefficient: n- octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available
	ner safety information data available	

# **10. STABILITY AND REACTIVITY**

- **10.1 Reactivity** no data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** Reacts violently with water.
- **10.4 Conditions to avoid** Heat, flames and sparks. Exposure to moisture.
- **10.5** Incompatible materials Strong oxidizing agents, Reacts violently with water., Strong bases, Alcohols

#### **10.6 Hazardous decomposition products** Other decomposition products - no data available In the event of fire: see section 5

## **11. TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

## Acute toxicity

no data available

Inhalation: no data available

Dermal: no data available

no data available

# Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitisation no data available

Germ cell mutagenicity no data available

## Carcinogenicity

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

#### **Reproductive toxicity**

no data available

no data available

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

## Aspiration hazard

no data available

## **Additional Information**

**RTECS:** Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

## **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

no data available

- **12.2** Persistence and degradability no data available
- **12.3 Bioaccumulative potential** no data available
- **12.4 Mobility in soil** no data available
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

no data available

## **13. DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

## Contaminated packaging

Dispose of as unused product.

# **14. TRANSPORT INFORMATION**

#### DOT (US)

UN number: 2920 Class: 8 (3) Packing group: II Proper shipping name: Corrosive liquids, flammable, n.o.s. (Propionyl bromide) Marine pollutant: No Poison Inhalation Hazard: No

## IMDG

UN number: 2920 Class: 8 (3) Packing group: II EMS-No: F-E, S-C Proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Propionyl bromide) Marine pollutant: No

## ΙΑΤΑ

UN number: 2920 Class: 8 (3) Packing group: II Proper shipping name: Corrosive liquid, flammable, n.o.s. (Propionyl bromide)

# **15. REGULATORY INFORMATION**

## SARA 302 Components

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

#### SARA 313 Components

SARA 313: 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

## Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components		
	CAS-No.	Revision Date
Propionyl bromide	598-22-1	
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Propionyl bromide	598-22-1	

## California Prop. 65 Components

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

## 16. OTHER INFORMATION

	tements referred to under sections 2 and	Full text of H-Stat
э.	Serious eye damage Flammable liquids Flammable liquid and vapour. Causes severe skin burns and eye damag Causes serious eye damage. Skin corrosion	Eye Dam. Flam. Liq. H226 H314 H318 Skin Corr.
	0 izard: 2 0	<b>HMIS Rating</b> Health hazard: Chronic Health Ha: Flammability: Physical Hazard
		<b>NFPA Rating</b> Health hazard: Fire Hazard: Reactivity Hazard:
	on	Further information
CON	Serious eye damage Flammable liquids Flammable liquid and vapour. Causes severe skin burns and eye damage Causes serious eye damage. Skin corrosion	Eye Dam. Flam. Liq. H226 H314 H318 Skin Corr. <b>HMIS Rating</b> Health hazard: Chronic Health Haz Flammability: Physical Hazard <b>NFPA Rating</b> Health hazard: Fire Hazard: Reactivity Hazard:

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