

	n-Propyl Bromide	
Version: 1.0	Revision Date: 03/31/2015	Print Date: 09/14/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: n-Propyl Bromide

Product Use Description: Chemical intermediate

Company: Chemtura Corporation

199 Benson Road Middlebury, CT

06749

United States of America

Telephone: (US) +1 866-430-2775

Emergency telephone

number:

CHEMTREC: (24 hours) 800-424-9300

Chemtura Corporation Emergency Response: CHEMTURA: 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety

Data Sheet.

Prepared by **Product Safety Department**

(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use Chemical intermediate

Restrictions on use For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

Form	liquid
Colour	colourless to light yellow
Odour	strong characteristic

GHS Classification

Skin irritation : Category 2 : Category 2A Eye irritation Reproductive toxicity : Category 1B

single exposure

Specific target organ toxicity - : Category 3 (Respiratory system, Central nervous system)

Specific target organ toxicity -

: Category 1 (Respiratory system)

repeated exposure

Acute aquatic toxicity : Category 3

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GHS Label element

Signal word : Danger

Hazard pictograms





Hazard statements : H315 Causes skin irritation.

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated

exposure.

H402 Harmful to aquatic life.

Other hazards : None

Precautionary statements : **Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ 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.

P273 Avoid release to the environment.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

P281 Use personal protective equipment as required.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

Storage:

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

tightly closed.

P405 Store locked up.

Disposal:



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P501 Dispose of contents/ container to an approved waste

disposal plant.

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.

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.

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
1-bromopropane	106-94-5	>= 90 - <= 100 %

SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air.

Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

If skin irritation persists, call a physician.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

If swallowed : DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

Rinse mouth with water.

Get medical attention immediately.

Most important symptoms and effects, both acute and

: toxic effects for reproduction irritant effects

delayed

Notes to physician : For specialist advice physicians should contact the Poisons

Information Service.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water mist

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Alcohol-resistant foam Carbon dioxide (CO2)

Dry powder Sand

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Fire Hazard

Burning produces noxious and toxic fumes.

Do not allow run-off from fire fighting to enter drains or water

courses.

Special protective equipment

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Full protective flameproof clothing

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition. Ensure adequate ventilation.

Avoid skin contact with leaking liquid (danger of frostbite).

Environmental precautions : Should not be released into the environment.

Methods and materials for containment and cleaning up

: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid prolonged contact.

Keep away from fire, sparks and heated surfaces.

Avoid inhalation, ingestion and contact with skin and eyes.

Do not use sparking tools.

Conditions for safe storage : Keep away from fire, sparks and heated surfaces.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Materials to avoid : Oxidizing agents, Zinc, Alkali metals, Aluminium, Bases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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Components	CAS-No.	Form of exposure	Permissible concentration	Basis
1-bromopropane	106-94-5	TWA	10 ppm	ACGIH

Engineering measures : Use only in an area equipped with flame proof exhaust

ventilation.

Ensure that eyewash stations and safety showers are close to

the workstation location.

Personal protective equipment

Respiratory protection : Respirator with a vapour filter (EN 141)

Hand protection

Remarks : Impervious gloves Please observe the instructions regarding

permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Replace when

worn.

Eye protection : Safety glasses with side-shields

Tightly fitting safety goggles

Skin and body protection : impervious clothing

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Keep away from food, drink and animal feedingstuffs.

Provide adequate ventilation.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colourless to light yellow

Odor : strong characteristic
Odour Threshold : No data available
pH : Not applicable

Melting point/range : -110 °C

Boiling point/boiling range : 70 - 71 °C (1,013 hPa)

Evaporation rate : 6

Flash point

Method: Tag closed cup

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does not flash

Upper explosion limit : 9.7 %(V)

Lower explosion limit : 3.6 %(V)

Vapour pressure : 190.65 hPa (25 °C)

Relative vapour density : 4.3

Relative density : 1,353 (25 °C)

Solubility(ies)

Water solubility : 2.5 g/l (20 °C)

No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: Pow: 2.1

No data available

Auto-ignition temperature : 490 °C

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : 0.52 mPa.s (20 °C)

Viscosity, kinematic : No data available Explosive properties : Not explosive

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

: Will not occur.

Conditions to avoid : Extremes of temperature and direct sunlight.

Exposure to moisture. Heat, flames and sparks.

Contamination

Incompatible materials : Oxidizing agents

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Zinc

Alkali metals Aluminium Bases

Hazardous decomposition

products

Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).

Bromine

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : LD50: 4,260 mg/kg

Species: Rat

Acute inhalation toxicity

(Product)

: LC50: 253 mg/l

Exposure time: 0.5 h

Species: Rat

Remarks: Irritating to respiratory system.

Dizziness

Acute dermal toxicity

(Product)

: LD50: > 2,000 mg/kg

Species: Rat

Eye irritation (Product) : Remarks: Irritating to eyes.

Aspiration toxicity (Product) : No aspiration toxicity classification

Genotoxicity in vitro (Product) : Ames test

positive

Further information (Product) : May impair fertility.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish (Product) : LC50: 67.3 mg/l

Exposure time: 96 h

Species: Fish

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Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:

Bioaccumulation is unlikely.

Mobility (Product) : Remarks:

No data available

Biodegradability (Product) : Result: No data available

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment (Product)

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological

: Do not allow material to contaminate ground water system.

information (Product)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of as hazardous waste in compliance with local and

national regulations.

Dispose of wastes in an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

IATA

UN number : 2344

Description of the goods : Bromopropanes

Class : 3
Packing group : II
Environmentally hazardous : no

IMDG

UN number : 2344

Description of the goods : BROMOPROPANES

Class : 3 Packing group : II

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EmS Number 1 : F-E EmS Number 2 : S-D Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

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.

California Prop 65 WARNING: This product contains a chemical known to the

State of California to cause birth defects or other reproductive

harm.

1-bromopropane 106-94-5 2-bromopropane 75-26-3

The components of this product are reported in the following inventories:

US.TSCA On TSCA Inventory

All components of this product are on the Canadian DSL.

AICS

All components of this product are on the Canadian DSL.

On the inventory, or in compliance with the inventory

NZIoC Not in compliance with the inventory

ENCS
On the inventory, or in compliance with the inventory
KECI
On the inventory, or in compliance with the inventory
PICCS
On the inventory, or in compliance with the inventory
IECSC
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144
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	All other countries	+44 (0) 1235 239 670
Mexico:		+52 555 004 8763

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