



# Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)

Works : Plot No. 68-69,G.I.D.C Industrial Estate,Nandesari,Vadodara-391340 (Gujarat)

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## SECTION1:Identificationofthesubstance/mixtureandofthecompany/undertaking

### Productidentifiers

Productname : **N-ButylChloride**

CAS-No. : 109-69-3

### Relevantidentifiedusesofthesubstanceor mixtureanduses advisedagainst

Identifieduses : Laboratorychemicals,Industrial&forprofessionaluseonly.

### Detailsofthesupplierofthesafetydatasheet

Company : Qualikems Lifesciences Pvt Ltd

Works : Plot No. 68.69,G.I.D.C  
Industrial Estate, Nandesari,  
Vadodara-391340 (Gujarat)

### Emergency telephone number

Emergency Phone # : +91-265-2841531 (9:00am - 6:30 pm) [Office hours]

## SECTION2:Hazardsidentification

### Classificationofthesubstanceormixture

#### ClassificationaccordingtoRegulation(EC)No1272/2008

Flammable liquids (Category 2), H225

Aspiration hazard (Category 1), H304

Chronic aquatic toxicity(Category3),H412

ForthefulltextoftheH-StatementsmentionedinthisSection,seeSection 16.

### Labellements

#### LabellingaccordingRegulation(EC)No1272/2008

Pictogram



Signalword

Danger

Hazardstatement(s)

H225

Highlyflammableliquidandvapour.

H304

Maybefatalifswallowedandentersairways.

H412

Harmfultoaquaticlifewithlonglasting effects.

Precautionary statement(s) P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
P331	
P403+P235	Store in a well-ventilated place. Keep cool. none
Supplemental Hazard Statements	

### Other hazards

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.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms	:	Butylchloride
Formula	:	C <sub>4</sub> H <sub>9</sub> Cl
Molecular weight	:	92.57 g/mol
CAS-No.	:	109-69-3
EC-No.	:	203-696-6
Index-No.	:	602-059-00-3

### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
<b>Butylchloride</b>			
CAS-No.	109-69-3	Flam. Liq. 2; Asp. Tox. 1;	<=100%
EC-No.	203-696-6	Aquatic Chronic 3; H225,	
Index-No.	602-059-00-3	H304, H412	

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

## SECTION 4: First aid measures

### Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

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

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

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

### 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

## **SECTION 5: Firefighting measures**

### **Extinguishing media Suitable for extinguishing**

#### **Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, Hydrogen chloride gas

### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

#### **Further information**

Use water spray to cool unopened containers.

## **SECTION 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 in low areas. For personal protection see section 8.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **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).

#### **Reference to other sections**

For disposal see section 13.

## **SECTION 7: Handling and storage**

### **Precautions for safe handling**

Avoid contact with skin and eyes. 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.

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

Store in cool place. 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.

Storage class (TRGS 510): Flammable liquids

#### **Specific end use(s)**

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

## **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

### **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**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standard such as NIOSH (US) or EN 166 (EU).

### **Skinprotection**

Handlewithgloves.Glovesmustbeinspectedpriortouse.Usepropergloveremovaltechnique (withouttouchingglove's outersurface)to avoidskincontactwith this product.Dispose of contaminatedglovesafteruseinaccordancewithapplicablelawsandgoodlaboratorypractices. Wash and dry hands.

### **BodyProtection**

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**

Whereriskassessmentshowsair-purifyingrespiratorsareappropriateuse(US)ortypeABEK(EN 14387)respiratorcartridgesas a backup to enginee protection,use a full-facesuppliedair respirator.Use respirators and components tested and approved under appropriategovernment standards such as NIOSH (US) or CEN (EU).

### **Controlofenvironmentalexposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## **SECTION9:Physicalandchemicalproperties**

### **Informationonbasicphysicalandchemicalproperties**

a) Appearance	Form:liquid
b) Odour	stinging
c) OdourThreshold	Nodataavailable
d) pH	Nodataavailable
e) Meltingpoint/freezing point	Meltingpoint/range:-123°C-lit.
f) Initial boiling point and boilingrange	77-78°C-lit.
g) Flashpoint	-12°C-closedcup
h) Evaporationrate	Nodataavailable
i) Flammability(solid,gas)	Nodataavailable
j) Upper/lower flammabilityor explosivelimits	Upperexplosionlimit:10.1%(V) Lowerexplosionlimit:1.8%(V)
k) Vapour pressure	80.1mmHgat78.4°C
l) Vapourdensity	3.2-(Air=1.0)
m) Relative density	0.885-0.887g/cm <sup>3</sup> at20°C
n) Watersolubility	ca.0.11g/lat20°C-OECDTestGuideline105-partlysoluble
o) Partition coefficient: n-octanol/water	logPow:2.66at20°C
p) Auto-ignition temperature	245°C at1hPa
q) Decomposition temperature	Nodataavailable
r) Viscosity	Nodataavailable
s) Explosiveproperties	Nodataavailable
t) Oxidizingproperties	Nodataavailable

## Othersafetyinformation

Surface tension 63.2mN/mat20°C

Relative vapour density 3.2-(Air=1.0)

## SECTION10:Stabilityandreactivity

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agents, Strong bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Other decomposition products - No data available

In the event of fire: see section 5

## SECTION11:Toxicological information

### Information on toxicological effects Acute

#### toxicity

LD50 Oral-Rat-2,670mg/kg (Butyl chloride)

LC50 Inhalation - Rat - male and female - 4 h - > 7.74 mg/l (Butyl chloride)  
(OECD Test Guideline 403)

#### Skin corrosion/irritation

Skin-Rabbit (Butyl chloride)

Result: No skin irritation

(OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes-Rabbit (Butyl chloride) Result:

No eye irritation

(OECD Test Guideline 405)

#### Respiratory or skin sensitisation

Buehler Test-Guinea pig (Butyl chloride)

Result: negative

(OECD Test Guideline 406)

#### Germ cell mutagenicity

Chromosome aberration test in vitro (Butyl chloride) Chinese hamster cells

Result: negative

OECD Test Guideline 474 (Butyl chloride)

Mouse - male and female

Result: negative

#### Carcinogenicity

Animal testing did not show any carcinogenic effects. (Butyl chloride)

#### Reproductive toxicity

No toxicity to reproduction (Butyl chloride)

No data available (Butylchloride)

**Specific target organ toxicity-single exposure**

No data available (Butylchloride)

**Specific target organ toxicity-repeated exposure**

No data available

**Aspiration hazard**

May be fatal if swallowed and enters airways. (Butylchloride)

**Additional Information**

Repeated dose toxicity- Rat - male and female - Oral - No observed adverse effect level - 120 mg/kg (Butylchloride)

RTECS: EJ6300000

**SECTION 12: Ecological information**

**Toxicity**

Toxicity to fish                      semi-static test LC50-Brachydaniorerio (zebrafish)-ca. 75.6 mg/l-96 h (Butylchloride) (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates              EC50-Daphnia magna (Waterflea)-3,020 mg/l-48 h (Butylchloride)

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available (Butylchloride)

**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.

**Other adverse effects**

Harmful to aquatic life with long lasting effects. No data available

**SECTION 13: Disposal considerations**

**Waste treatment methods**

**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solution to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

## SECTION14:Transportinformation

### UNnumber

ADR/RID:1127

IMDG:1127

IATA:1127

### UN proper shippingname ADR/RID:

CHLOROBUTANES

IMDG: CHLOROBUTANES

IATA: Chlorobutanes

### Transporthazardclass(es)

ADR/RID:3

IMDG:3

IATA:3

### Packaginggroup

ADR/RID:II

IMDG: II

IATA:II

### Environmentalhazards

ADR/RID:no

IMDGMarinepollutant:no

IATA:no

### Specialprecautionsforuser

Nodataavailable

## SECTION15:Regulatoryinformation

### Safety,healthandenvironmentalregulations/legislationspecificforthesubstanceormixture

This safetydatasheetcomplieswiththerequirementsofRegulation(EC)No.1907/2006.

### Chemicalsafetyassessment

Forthisproductachemicalsafetyassessmentwas not carriedout

## SECTION16:Otherinformation

### FulltextofH-Statementsreferredtoundersections 2and3.

H225 Highlyflammableliquidandvapour.

H304 Maybefatalifswallowedandentersairways.

H412 Harmfulto aquaticlifewithlonglastingeffects.

### Furtherinformation

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Qualikems Lifesciences Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.qualikems.com](http://www.qualikems.com) for additional terms and conditions of sale.