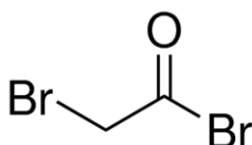


SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Substance
Trade name EC-No.	:BROMOACETYL BROMIDE
CAS-No.	: 209-923-5
Product code Formula	: 598-21-0
Chemical structure	: 2259K



Synonyms	:2-Bromoacetyl bromide
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1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture	:Laboratory chemicals Manufacture of substances
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1.2.2. Uses advised against

No additional information

1.3. Details of the supplier of the safety data sheet

SPAN LAB
UNIT NO. 14, SKY INDUSTRIAL ESTATE, WALIV, VASAI (E)
401208 Mumbai - INDIA
PH: +91 9820509929
info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1, Sub-Category 1B H314

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

Signal word (CLP)

: Danger

Hazard statements (CLP)

:H314 - Causes severe skin burns and eye damage.

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Precautionary statements (CLP) :P280 - Wear protective gloves, protective clothing, eye protection, face protection.
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 doctor.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
BROMOACETYL BROMIDE	CAS-No.: 598-21-0 EC-No.: 209-923-5	100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general :Call a physician immediately.
First-aid measures after inhalation :Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact :Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact :Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion :Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact :Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media :Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire :Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting :Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures :Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours.

6.1.2. For emergency responders

Protective equipment :Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning

up
Methods for cleaning up :Take up liquid spill into absorbent material.
Other information :Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling :Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours. Wear personal protective equipment.
Hygiene measures :Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions :Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1. **National occupational exposure and biological limit values** No additional information available

8.1.2. **Recommended monitoring procedures** No additional information available

8.1.3. **Air contaminants formed** No additional information available

8.1.4. **DNEL and PNEC** No additional information available

8.1.5. **Control banding** No additional information available

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8.2. Exposure controls

1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

1. Personal protection equipment

Personal protective equipment symbol(s):



1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

No additional information available

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Appearance	:No data available
Molecular mass	Colour	:No data available
	Odour	:No data available
Odour threshold	pH	:Not applicable
Relative evaporation rate (butylacetate=1)		:< 0 °C
Melting point		:147 – 150 °C
Freezing point		:105 °C
Boiling point		:No data available
Flash point		:No data available
Auto-ignition temperature		:Not applicable
Decomposition temperature		:3.8 mm Hg at 25°C
Flammability (solid, gas)		: 6.96
Vapour pressure		:No data available
Relative vapour density at 20 °C		:2.317 g/cm³ at 25°C
Relative density	Density	Solubility
		:Acetone: Miscible
Partition coefficient n-octanol/water (Log Pow)		: -0.04
Viscosity, kinematic		:No data available
Viscosity, dynamic		:No data available
Explosive properties		:No data available
Oxidising properties		:No data available
Explosive limits		:No data available
		: Liquid
		:Clear liquid.
		:201.86 g/mol
		:Colourless to Light yellow.
		:No data available
		:No data available

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9.2. Other information

Refractive index :1.545 – 1.549 (20°C, 589 nm)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:Not classified
Acute toxicity (dermal)	:Not classified
Acute toxicity (inhalation)	:Not classified
Skin corrosion/irritation	:Causes severe skin burns.
Serious eye damage/irritation	:Assumed to cause serious eye damage
Respiratory or skin sensitisation	:Not classified
Germ cell mutagenicity	:Not classified
Carcinogenicity	:Not classified
Reproductive toxicity STOT- single exposure STOT- repeated exposure Aspiration hazard	:Not classified :Not classified :Not classified :Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute)	:Not classified
Hazardous to the aquatic environment, long-term (chronic)	:Not classified

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential

BROMOACETYL BROMIDE (598-21-0)

Partition coefficient n-octanol/water (Log Pow)	-0.04
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods :Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number

UN-No. (ADR)	:UN 2513
UN-No. (IMDG)	:UN 2513
UN-No. (IATA)	:UN 2513
UN-No. (ADN)	:UN 2513
UN-No. (RID)	:UN 2513

14.2. UN proper shipping name

Proper Shipping Name (ADR)	:BROMOACETYL BROMIDE :BROMOACETYL BROMIDE
Proper Shipping Name (IMDG)	:Bromoacetyl bromide
Proper Shipping Name (IATA)	:BROMOACETYL BROMIDE :BROMOACETYL BROMIDE
Proper Shipping Name (ADN)	:BROMOACETYL BROMIDE :BROMOACETYL BROMIDE
Proper Shipping Name (RID)	:UN 2513 BROMOACETYL BROMIDE, 8, II, (E)
Transport document description (ADR)	:UN 2513 BROMOACETYL BROMIDE, 8, II :UN 2513 Bromoacetyl bromide, 8, II
Transport document description (IMDG)	:UN 2513 BROMOACETYL BROMIDE, 8, II :UN 2513 BROMOACETYL BROMIDE, 8, II
Transport document description (IATA)	:UN 2513 BROMOACETYL BROMIDE, 8, II :UN 2513 BROMOACETYL BROMIDE, 8, II
Transport document description (ADN)	:UN 2513 BROMOACETYL BROMIDE, 8, II :UN 2513 BROMOACETYL BROMIDE, 8, II
Transport document description (RID)	:UN 2513 BROMOACETYL BROMIDE, 8, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8

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Danger labels (IMDG) :8



IATA

Transport hazard class(es) (IATA) : 8

Danger labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8

Danger labels (ADN) :8



RID

Transport hazard class(es) (RID) : 8

Danger labels (RID) :8



14.4. Packing group

Packing group (ADR) : II :

Packing group (IMDG) II :

Packing group (IATA) II :

Packing group (ADN) II :

Packing group (RID) II

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information :No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) :C3

Limited quantities (ADR) : 11

Excepted quantities (ADR) : E2

Packing instructions (ADR) :P001, IBC02

Mixed packing provisions (ADR) :MP15

Portable tank and bulk container instructions (ADR) : T8

Portable tank and bulk container special provisions (ADR)

(ADR)

Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

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Transport category (ADR) : 2
Hazard identification number (Kemler No.) : X80 :
Orange plates



Tunnel restriction code (ADR) : E
EAC code : 4W

Transport by sea

Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
IBC special provisions (IMDG) : B20
Tank instructions (IMDG) : T8
Tank special provisions (IMDG) : TP2
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : C
Stowage and handling (IMDG) : SW2
Segregation (IMDG) : SGG1, SG36, SG49
Properties and observations (IMDG) : Clear liquid, colourless. Boiling point: 150°C . Reacts violently with water, evolving hydrogen bromide, an irritating and corrosive gas apparent as white fumes. In the presence of moisture, highly corrosive to most metals. Reacts violently with alkalis such as ammonia and hydrazine. Causes very severe burns to skin, eyes and mucous membranes. Vapour causes tears.

Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L :
PCA packing instructions (IATA) 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
ERG code (IATA) : 8L

Inland waterway transport

Classification code (ADN) : C3
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2 :PP,
Equipment required (ADN) EP : 0
Number of blue cones/lights (ADN)

Rail transport

Classification code (RID) : C3
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2
Packing instructions (RID) : P001, IBC02
Mixed packing provisions (RID) : MP15
Portable tank and bulk container instructions (RID) : T8
Portable tank and bulk container special provisions (RID) : TP2
(RID)
Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE6
Hazard identification number (RID) : X80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	BROMOACETYL BROMIDE

BROMOACETYL BROMIDE is not on the REACH Candidate List

BROMOACETYL BROMIDE is not on the REACH Annex XIV List

BROMOACETYL BROMIDE is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

BROMOACETYL BROMIDE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

1. National regulations

Germany

Employment restrictions :Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) :Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV)

Hazardous Incident Ordinance (12. BImSchV) :Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen :The substance is not listed :The substance is not listed :The substance is not listed

SZW-lijst van mutagene stoffen NIET-limitatieve lijst van voor de voortplanting :The substance is not listed

giftige stoffen – Borstvoeding :The substance is not listed

NIET-limitatieve lijst van voor de voortplanting :The substance is not listed

giftige stoffen – Vruchtbaarheid NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling **Denmark**

Danish National Regulations **Switzerland**

Storage class (LK) :Young people below the age of 18 years are not allowed to use the product

:LK 8 - Corrosive materials

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level

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Abbreviations and acronyms	
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
H314	Causes severe skin burns and eye damage.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.