



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : P 11625  
Product Name : Potassium bromate

Manufacturer / supplier identification  
Company : NICE Chemicals (P) Ltd. , Cochin , India  
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Telefax No. : 0484 2802483

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No : 7758-01-2 Ec-Index No.:  
Molar Mass : EC-No. : 231-829-8  
Molecular Formula :  $\text{BrKO}_3$

## 3. HAZARDS IDENTIFICATION

May cause cancer. Also harmful if swallowed. Restricted to professional users. Obtain special instructions before use.  
Explosive when mixed with combustible materials.

## 4. FIRST AID MEASURES

After inhalation : fresh air .  
After skin contact : wash off with plenty of water .  
After eye contact : rinse out with plenty of water with eyelids held open .  
After swallowing : make victim drink plenty of water, induce vomiting , summon doctor .

## 5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials available in the immediate neighbourhood  
Special risks :Fire promoting. Keep away from combustible materials. Development of hazardous combustion gases or vapours possible in the event of fire.  
The following may develop in the event of fire:  
bromine

## 6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning / absorption :  
Take up dry. Forward for disposal. Clean up affected area.  
Person – related precautionary measures :  
Avoid substance contact.  
Environmental protection measures:  
Do not allow to enter sewage system



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## 7. HANDLING AND STORAGE

Handling : No further requirements.  
Storage : Tightly closed .Away from combustible materials.  
Place. Accessible only for authorised Persons.  
At +15<sup>0</sup> to +25<sup>0</sup> C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment  
Respiratory protection : required when dusts  
are generated .  
Eye protection : required  
Hand protection : required  
Industrial hygiene : Change contaminated  
clothing . Application of skin protective barrier  
cream recommended . Wash hands after working  
with substance

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	solid
Colour	:	colourless to white
Odour	:	odourless
Melting temperature	:	434 °C
Boiling temperature	:	Not available
PHvalue at 50 g/l H <sub>2</sub> O(20 <sup>0</sup> C)	:	5-9
Ignition temperature	:	Not available
Flash point	:	Not available
Explosion limits lower	:	Not available
Upper	:	Not available
Relative vapour density	:	Not available
Density (20 <sup>0</sup> C )	:	3.42 g/cm <sup>3</sup>
Solubility in		
water ( 20 <sup>0</sup> C )	:	near 70 g/l
ethanol ( 100 <sup>0</sup> C )	:	near 497 g/l

## 10. STABILITY AND REACTIVITY

Conditions to be avoided : no information  
available.  
Substance to be avoided :semi metals, non metals  
non-metallic halides, reducing agents,  
ammonium compounds, metals in powder form  
Hazardous decomposition products :  
no information available



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## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD<sub>50</sub> ( oral, rat ) : 321 mg/ Kg

Subacute to chronic toxicity:

Animal experiments performed under conditions comparable with the work place situation have shown the substance to be carcinogenic.

Further toxicological information

After swallowing : vomiting, diarrhoea, gastric pain

Systemic effects:

Methaemoglobinaemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea and spasms, Key symptoms: blue coloration of blood.

After a latency period: damage of kidneys, liver.-necrosis

Further data

Further hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing with chemicals.

## 12. ECOLOGICAL INFORMATION

Ecotoxic effect

Quantitative data on the ecological effect of this product are not available

Further ecologic data:

Do not allow to enter waters, waste water, or soil. Adverse ecological effects cannot be excluded in the event of improper handling or disposal.

## 13. DISPOSAL METHOD

Product : There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations . We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste .

Packaging : Disposal in compliance with official Regulations . Handle contaminated packaging as In the same way as the substance itself . If not officially specified differently , non – contaminated packaging may be treated like household waste or recycled .

