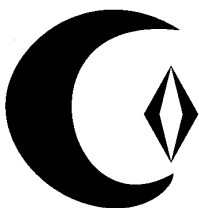


SIBX (异丁基黄原酸钠) :



QINGDAO RUCHANG TRADING CO., LTD

Date Issued

MATERIAL SAFETY DATA SHEET

COMPANY DETAILS

NAME QINGDAO R.C.
ADDRESS NO E,Xiangjiang Garden,Development Zone,Qingdao,Shandong,China.
TELEPHONE NO. ++86 (532) 8688 7939 **FACSIMILE NO.** ++86 (532) 8688 7939

IDENTIFICATION

PRODUCT NAME: RC 320 COLLECTOR _____
PRODUCT DESCRIPTION: REAGENT SIBX
CHEMICAL COMPONENT: SODIUM ISOBUTYL XANTHATE

DG CLASS : 4.2 Spontaneously Combustible **UN NO:** 3342
HAZCHEM: 1Y **PACKAGING GROUP:** II
EPG

PHYSICAL DESCRIPTION/PROPERTIES

Appearance & Odour: Yellow green pellet or powder with slight characteristic odour.

Boiling Point: N.A. **Vapour Density :** N.A.
Melting Point: N.A. **Vapour Pressure:** N.A.
Flash Point : N.A. **Specific Gravity:** 0.80 ~ 0.85
Volatiles by Volume: N.A. **Solubility in Water:** Soluble
Bulk Density : 0.85 **PH :** Water solutions >12
LEL – UEL%: N.A. **Evaporation Rate:** < 1

HAZARDOUS INGREDIENTS

Chemical Name	CAS Number	Proportion
Sodium Isobutyl Xanthate	25306-75-6	> 80%

Sodium Hydroxide	001310-73-2	<1%
Isobutyl alcohol	78-83-01	< 0.5%
Ingredients determined to be non-hazardous		
Or below cut-off concentrations	N.A.	to 100%

HEALTH HAZARD INFORMATION

Acute May *May be harmful if absorbed through the skin, swallowed or inhaled. May cause serious damage to eyes if splashed.*

Ingested May burn mouth and upper digestive tract. Will cause vomiting and headache, May have CNS effects.

Eyes Will cause irritation of the eye. Will cause redness, watering and itching of the eye. May cause burns to cornea on contact

Skin May cause severe irritation and possible burns if left in contact. May be absorbed through skin into system. May act as a sensitiser. Severe over-exposure may be fatal.

Inhaled Dust will irritate the nose and throat, and cause coughing and chest discomfort. CS₂ vapors are rapidly absorbed and may cause headache, nausea and dizziness followed by vomiting, blurred vision, respiratory depression and unconsciousness.

First Aid Facilities Provide normal industrial first aid facilities including, as appropriate, eye-wash stations and deluge showers located in the immediate area where product is handled.

FIRST AID

Ingested Actions Induce vomiting and rinse mouth with water and give two glasses of milk or water to drink. Seek urgent medical attention.

Eyes Actions **IMMEDIATELY:** hold eyelids open and flush eyes with water for at least 15 minutes. Ensure that the underside of eyelids is flushed out. If symptoms persisted seek urgent medical assistance.

Skin Actions **IMMEDIATELY:** Remove contaminated clothing, while in safety shower if necessary. Flush affected area with water for 5 minutes. Wash affected area with soap and water for further 5~10 minutes. Rinse well and pat dry. If symptoms persist or if burns are present seek urgent medical assistance.

Inhaled Actions **IMMEDIATELY:** Remove patient to fresh air. Loosen tight clothing and allow to rest. Apply Artificial respiration and external cardiac massage if breathing is difficult or patient is turning blue. Unless recovery is almost immediate seek

urgent medical assistance.

ADVICE TO DOCTOR

Provide supportive care and treatment based on the patient's reactions to the exposure. For further information contact:

POISONS INFORMATION CENTRE 13 11 26 (in Australia)

Other Health Information LD₅₀ Oral Rat 1500 mg/kg. Probable Lethal Dose Human 0.5 to 5 g/kg.
LD₅₀ Dermal Rabbit 2050 mg/kg

PRECAUTIONS FOR USE

Exposure Work Safe Australia has not established an exposure standard for this product.

Standard OSHA (USA) has established 5 ppm (skin) as the TWA for this product.

Engineering Provide ventilation or extraction systems capable of maintaining workplace air

Controls below the exposure standard recommended.

PERSONAL PROTECTION

Ventilation Protection Provide general ventilation or local exhaust ventilation if conditions of use generate dust

Eye Protection Wear chemical safety goggles or full face shield to AS 1377. Do not wear contact lenses while working with this product.

Gloves Wear impervious PVA or Neoprene gloves, preferable elbow length.

Clothing Wear cotton coveralls fastened at the neck and wrists and supplemented when necessary by a full length acid apron (PVC or similar).

Industrial Hygiene Follow normal industrial / chemical hygiene practices.

FLAMMABILITY

Product is an spontaneously solid and is combustible. It does decomposed by absorbed moisture and/or heated under high temperature, and produce the toxic and flammable carbon disulphide vapour and hydrogen sulphide gas.

Flammable Limits of CS₂ gas (% by vol. In air) : 1.25 ~ 50

SPILLS AND DISPOSAL

Dry Spill Wear eye protection and gloves, dust mask if necessary. Collect in dry containers and seal to be resued if possible. Do not dilute with water.

Wet Spill Self contained breathing apparatus should be used. Absorb on a 3-662 oil dry. Place in a sealed container. Xanthates may be recovered by leaching out with water, but if recovery is not possible bury waste in an approved "land fill" site, flush remaining spill away with plenty of water.

Disposal Disposal must be in accordance with local regulations for hazardous substances. Do not release to waterways or drains.

STORAGE AND TRANSPORT

Storage Store in a dry and well ventilated area, keep away from foodstuffs, heat and moisture. Keep away from class 5 acid. Part of full packages must be kept sealed or closed. Keep store below 41 °C

Storage life : 8 months at maximum activity from date of production.

Transport Transport as UN 3342 Class 4.2 and Packaging Group II in accordance with the ADG Code, the IMDG Code or the IATA DG Regulations as appropriate to the mode of transport.

FIRE AND EXPLOSION HAZARDS

Decomposition

By- Products Under heat or wet conditions may emit CS₂ & H₂S, as substance decomposes. The vapour of CS₂ may cause explosion, and could effect on the CNS. H₂S may cause loss of consciousness

Fire Fighting Recommendations Fire fighters should wear self contained breathing apparatus and impervious clothing. Use large quantities of water and flush drains thoroughly.

Extinguishing Agents Water should not be used in a confined space where toxic vapours can accumulate. In this situation the dry chemical or sand should be used but be ware of re-ignition.

Precautions Wear full encapsulated suit with SCBA. Avoid bodily contact. Run-off waters will be contaminated.

Other Information Labels: Risk and safety Phrases:

Environmental

Fate: Toxic to fresh and sea aquatic life. Detrimental effect of potable water (verify pH before release of potable water system). Not expected to bio-concentrate or bio-accumulate

青岛鲁昌商贸有限公司

QINGDAO RUCHANG TRADING CO.,LTD

质量分析证书

CERTIFICATE OF QUALITY

品名 PRODUCT	异丁基黄原酸钠 SIBX	等级 GRADE	1 A
包装规格 PACKAGING		包装件数 NUMBERS OF PACKAGE	
目的地 DESTINATION		出厂日期 DATE OF EX WORKS	
检测项目 ITEM	规格指标 SPECIFICATIONS	检测结果 ANALYSIS RESULTS	
APPEARANCE	PELLET/POWDER	PELLET	
ACTIVITY %MIN	$\geq 90\%$	90.1%	
FREE ALKALI %MAX	$\leq 0.2\%$	$\leq 0.16\%$	
质检部门盖章: INSPECTION DEPARTMENT STAMP		CUSTOMER	
化验员编号 INSPECTION CODE	核对人: CHECKED BY		



800KG/box



120KG/160KG/drum



woven bag

Package(包装)	net weight (净重) (KG)	FCL (集装箱) (T)
plywood box (木箱)	800KG/box	16T/FCL(20boxes)
	850KG/box	17T/FCL(20boxes)
iron drum (铁桶)	120KG/drum	16.08T/FCL(134drums)
	160KG/drum	12.8T/FCL (80drums)
25kg or 50kg /inner bag (编织袋内衬塑料袋装, 净重 25KG/袋或 50KG/袋)		
DG CLASS	4.2	
HS Code	29309020	