ecogene

Company details
Vuzumart (Pty) Ltd
2012/047322/07
P.O. Box 66, Lanseria, 1748
011 300 9919

Material Data Safety Sheet

Poison Centre: 0860 155 5777

1. IDENTIFICATION

Product Name：Trichloroisocyanuric acid
Other Name：M90 Floater
Suggestion of Use and Use Restriction：Industrial water,swimming pool,restaurant ,hotel,public, family, hospital,egg and prevent fish disease and etc disinfection.

2.HAZARDS IDENTIFICATION

Articles hazard classification and national or regional information:
Oxidizing solids Class 2, Class 4 of the acute toxicity (oral),
a serious eye damage / eye irritation Category 2A
specific target organ toxicity - single exposure (respiratory tract irritation)3.
hazardous to the aquatic environment (acute) class 1
hazardous to the aquatic environment (chronic) class 1.

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICAL,INCLUDING OF PRECAUTIONARY:



Signal word：Dangerous

Hazard Illustration：

May cause burn or explode,Oxidizing material,harmful if swallon,may cause risk of burn to mucous membranes,eyes and skin.

Protective measure：

Take a bathe and change cloth after working.

Wear protective gloves/wear protective clothing/wear protective glasses/wear protective mask.

Avoid inhalating powder/fume/gas/vapor/spray.

Only can be used outside or well-ventilated place./

If swallowed:call a posison center or doctor immediately,gargle.

If skin contact,get off the contaminate cloth immdediatelu,rinse skin with plenty of water /take a bathe.

The contaminated cloth could be used after washing.

If inhalated:Remove the victim to fresh air,keep breathing comfortably,and all the poison contral centre or doctor immidiately;

If eys contacted: Rinse with clean water for a few minutes .remove contact lenses if present and contine rinsing.

Depository must be locked,store in a well ventilated place and keepo the container close.

Depose the container: Bury safely,or return the container to the supplier or bury it in some place.

Does not lead to other risk classification (eg dust explosion hazard) or parts of the GHS covers other hazardous：/

3.COMPOSITION/INFORMATION OF INGREDIENT

Pure substance

Chemical name	CAS NO.	**Composition**
Trichloroisocyanuric acid	87-90-1	99.5%

4.EMERGENCY MEASURES

Different measures of emergency

Inhalation：Remove to fresh air,If stop breathing,call the emergency centre and give artifical respiration.

Skin contact：Get off the cloth and rinse with plenty of water for 15 minutes,and see doctor.

Eye contact：Hold eye open and rinse gently and slowly with plenty of water for 10-15minutes.See a doctor.Remove the contact lenses if present and continue rinse with clean water. See a doctor.。

Ingestion：Call the poison center or doctor immdiately.

Protection for emergency person:ware breathing apparatus.

Mark out special treatment if seek medical care: If the patient has been unconscious,seek medical treatment immediately.

5.FIRE FIGHTER MEASURES

Suitable extinguishing media and unsuitable extinguishing media:Carbon dioxide or sand

Special danger chemical produced:Contianer may explide in hear of fire. With combustible, organic contact can inflammable, burning. The case of ammonia, ammonium salts, urea and other nitrogen compounds and water to generate the explosive nitrogen trichloride

Special protective equipment and precaution:Fire fighter should wear breathing apparatus,wear fire protective clothing.

6.ACCIDENTAL RELEASE MEASURE

Personal precaution,protection equipment and Emergency procedures：Suggest that the emergency worker should ware a respirator,ware protective overalls,do not contact the material directly.

Enviromental prcaution: Cut off the source as much as possible，prevent to enter into confined place.

Measures and materials for clean up:If small amount leakage,avoid dust,and use clean vaccum to collect material to dry,clean and covered container.,also could water the material down and put it into waste water systerm. If large amount leakage, collect and recycling or ship to waste treatment facility for procuring.

7.HANDING AND STORAGE

Safe handing precaution and protective measures:Closed operation,enhanced ventilation,and strictly abide by the rules.It is recommended that operators wear gas masks to wear the appropriate clothing,with anti-chemicalgloves and wear protective glasse,masks,no smoking in work place.

Safe storage condition:Store in a cool,dry,well ventilated warehouse,Keep far away from fire,heat and avoid sunlight;pack sealed,do not damp.It should be separated with oil,acid and other incompatible substance,do not mix.There should be proper container to collect the leaked material.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameter：/

Source	material	TWA Ppm	TWA mg/m3	STEL ppm	STEL mg/m3	peak ppm	peak mg/m3	TWA F/CC	Notes
Occupational health standards （Hongkong）	TCCA	0.5	1.5	1	2.9				
Workplace Hazardous Occupational Exposure Limits	TCCA			1					

Engineering controls: Strikly sealed,and provid adequate local ventilation

Personal protective equipment:：/

Personal protective equipment:

Protective eyeshade/masks: Respiratory system has been protective

Skin and body protection: Wear integral type protective clothing

Respiratory system protection: if any possible to contact with the powder,must wear the full-protective mask.,Emergency rescue or evacuation,should wear air ventilator.

9.THE PHYSICAL AND CHEMICAL PROPERTIES

Appearance(physical state,color and so on)：	White solid powder
Smell：	Chlorine
Smell value	/
PH：	/
Melting point / freezing point：	>225℃ decompose
Initial boiling point and boiling point range：	/
Flash point	/
Evaporation rate:	/
Flammability(solid ,gas)	/
A upper and lower flammable limits or explosion limit：	/
Vapor presure：	/
Vapor density：	/
Relative density：	2.07g/cm3
Solubility：	25℃ 1.2g/100ml
Classification coefficient:n-octyl alcohol/water	0.26
Auto-ignition temperature	/
Decomposition temperature	＞225℃
Viscosity	/

10.STABILITY AND REACTIVITY

Reactive：/

Chemical stability：/

Possibility of hazardous reaction:/

Condition to avoid: /High fever, fire, moist air.Water

Incompatible substances and materials:Reducing agent， acid， moist air， Conflict with them the nature

of flammable and explosive gases, liquids,reducing agent, ammonium salt, etc..Hazardous decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride.

11.TOXICOLOGICAL INFORMATION

Exposure measure: Ingestion,percutaneous absorption,eye contact

Relative symptoms of physical,chemical and toxicological characteristics:

Acute toxic effects: inhalation cause sore throat,coufhing,Skin contact can cause skin redness,pain and eye contact will cause redness,pain.Ingestion causes headache,dizziness,vomiting,abdomnal pain and other symptoms.

Chronic toxicity or long term toxic dffects：

Numerical measure of toxicity(such as acute toxicity estimates：

Danger	Irritating
According mouthLDLo(Lethal dose):3570mg/kg	Skin 500mg/24hr-middle
According skin LD50(Lethal dose)：406 mg/kg	Skin 500mg--Serious
Oral(Rabbit) LD:1900mg/kg	Eye 50ug/24hr Serious
According mouth LD50(Lethal dose):3570 mg/kg	Eye 3125 mg- middle

12.ECOLOGICAL INFORMATION

Ecotoxicity: The material is harmful to the enviroment,do not let the material into enviroment.

Persistence and degradability：high

Bioaccumulative：slight

Mobility in the soil：high

Other adverse effects: /

13.DESPOSAL CONSIDERSTIONS

Description of waste and disposal methods of waste(including the disposal of contaminated package):Security act,buried in france disposal.damaged container to prohibit the re-use,to be buried in a specified place

14.TRANSPORT INFORMATION

Un NO.: 2468

Transport name: Trichloroisocyanuric acid,Dry

Risk Class:5.1

Packing Group ： II

Marine pollutant（Yes/No）：Yes

Special pretective methods of user：

Rail transport should be strictly in accordance with dangerous goods in theMinistry of Railway Transport of Dangerous Goods Rules equipped withtable assembly. Separate shipment, during shipment to ensure that thecontainer does not leak, did not fall, do not fall, do not damage during transportation; transport vehicles should be equipped with appropriate types and quantities of fire-fighting equipment; strict with alkali, ammonium salts, flammable mix of organic compounds, reducing agents, spontaneous combustion, flammable wetlands goods and vehicles; transport speedshould not be too fast, should not be forced to overtake; accordance with the provisions of road transport routes. Before and

after the loading and unloading of transport vehicles should be thoroughly cleaned, washed, is strictly prohibited mixed with organic material, combustibles and other magazines.

15.REGULATORY INFORMATION

Domestic chemical safety regulations: Yhe chemical safety Date sheet to comply with the following national standards: GB16483-2008,GB13690-2009,GB6944-2005,GB/T15098-2008.GB18218-2009,GB15258-2009,GB6944-2005, GB190-2009,GB191-2009,GB12268-2008,GA57-1993,GB/T15098-2008,GBZ2-2007 and related laws and regulations:" Railway Dangerous Goods Transport Management Rules","Safety of Dangerous Chemical Regulations","The United Nations Recommendation on the Transport of Dangerous goods

16.OTHER INFORMATION

Reference	UN"RECOMMENDATION ON THE TRANSPORT OF DANGEROUS GOODS.MODEL REGULATION UN"GLOBAL CHEMICALS HARMONIZED CLASSIFICATION AND LABELING SYSTEM
Date	2012-05-08