

Material Safety Data Sheet Triphosgene

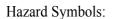
MSDS# 97949

	Section 1 - Chemical Product an	d Company Identification
MSDS Name:	Triphosgene	
Catalog Numbers:	AC258950000, AC258950050, AC2	258950100, AC258950250
Synonyms:	Bis(trichloromethyl)carbonate.	
Company Identification:		Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium
Company Identification: (USA)	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
For information in the US, call:		800-ACROS-01
For information in Europe, call:		+32 14 57 52 11
Emergency Number, Euro	ope:	+32 14 57 52 99
Emergency Number US:		201-796-7100
CHEMTREC Phone Nur	nber, US:	800-424-9300

Section 2 - Composition, Information on Ingredients

703-527-3887

CAS#:	32315-10-9
Chemical Name:	Triphosgene
%:	99
EINECS#:	250-986-3



CHEMTREC Phone Number, Europe:



Risk Phrases:

26 29 34

T+

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Water-reactive. Lachrymator (substance which increases the flow of tears). May be fatal if inhaled. Causes burns by all exposure routes. Can decompose violently at elevated temperatures. Contact with water liberates toxic gas. Target Organs: Respiratory system, gastrointestinal system, eyes, skin.

Potential Health Effects

- Eye: Causes eye burns. Lachrymator (substance which increases the flow of tears).
- Skin: Causes skin burns. May be harmful if absorbed through the skin.
- Ingestion: Causes gastrointestinal tract burns. May be harmful if swallowed.
- May be fatal if inhaled. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of Inhalation: spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. May cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.
- Chronic: No information found.

I Triphog	gene	none listed	none listed	none listed	
				OSHA - Final PELs 	
		+		+ +	
NIOTAGE	• •	C/39°F.) Store protected	from moisture. Store und	er nitrogen.	
S		-	y in a chemical fume hood in a dry area. Corrosives a	area. Water free area. Keep refrigerated.	
Handling: ac	ccumulation. Do	o not get in eyes, on skin	, or on clothing. Do not ing	ion. Minimize dust generation and gest or inhale. Use and store under nitrogen.	
			on 7 - Handling and Storag		
Spills/Leaks	Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection, section)				
General Information	Use proper	personal protective equip	pment as indicated in Sect	ion 8.	
		Section 6	- Accidental Release Mea	sures	
	ating: ; Special				
Explosion I I	Limits: Jpper: Not avai	lable			
	Limits: Not avai				
Flash	Point: Not appl	icable.			
Temper	nition ature:	icable.			
Media:	Use loar	•	on dioxide. DO NOT USE	E WATER!	
Information: Extinguishin	reactive. Material will react with water and may release a flammable and/or toxic gas.				
General	•		0 11	pressure-demand, MSHA/NIOSH (approved	
		Section	n 5 - Fire Fighting Measur	es	
Notes to Physician:					
Inhalation:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. SPEED IS ESSENTIAL, OBTAIN MEDICAL AID IMMEDIATELY. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.				
Ingestion:	Do not induce vomiting. Get medical aid immediately. Call a poison control center.				
Skin:	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.				
Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.				

OSHA Vacated PELs: Triphosgene: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

Personal Protective Equipment

- Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

		Section y Thysical and Chemical Properties		
		Physical State: Crystals		
		Color: white		
		Odor: none reported		
		pH: Not available		
		Vapor Pressure: 16 mbar @ 90 deg C		
		Vapor Density: Not available		
		Evaporation Rate: Not available		
		Viscosity: Not available		
		Boiling Point: 203 - 206 deg C @ 760 mmHg		
		Freezing/Melting Point: 77 - 81 deg C		
		Decomposition Temperature: Not available		
		Solubility in water: Insoluble		
		Specific Gravity/Density: 1.780		
		Molecular Formula: C3Cl6O3		
		Molecular Weight: 296.75		
		Section 10 - Stability and Reactivity		
Chemical Stabil	ity:	Moisture sensitive. Can decompose violently at elevated temperatures. Reacts with water. Heat sensitive		
Conditions to A	void:	Incompatible materials, dust generation, exposure to moist air or water, heat.		
Incompatibilitie	s with Other			
Materials		Strong oxidizing agents, acids, strong bases, amines, iron oxide, activated carbon.		
-		Hydrogen chloride, chlorine, phosgene, carbon monoxide, oxides of phosphorus, carbon dioxide.		
Hazardous Polymerization		Has not been reported.		
		Section 11 - Toxicological Information		
RTECS#:	CAS# 32315-	10-9: None listed		
LD50/LC50:	RTECS: Not a	vailable.		
Carcinogenicity	: Triphosgene -	Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.		
Other:	The toxicological properties have not been fully investigated. The hazards associated with phosgene may be			
		Section 12 - Ecological Information		
Other:	Do no	ot empty into drains.		
		Section 13 - Disposal Considerations		
Dispose of in a	manner consiste	nt with federal, state, and local regulations.		
Dispose of in a	manner consiste			
US DOT		Section 14 - Transport Information		
	2928	CORROSIVE, ORGANIC, N.O.S.		
Packing Group:				

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T+

Risk Phrases:

R 26 Very toxic by inhalation.

R 29 Contact with water liberates toxic gas.

R 34 Causes burns.

Safety Phrases:

S 9 Keep container in a well-ventilated place.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 32315-10-9: Not available

Canada

Canadian WHMIS Classifications: D1A, E, F

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 32315-10-9 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 32315-10-9 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 6/15/1998 Revision #8 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
