SAFETY DATA SHEET



TRIPHOSGENE

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

1.1 Product identifier:	40-0
CAS Number:	32315-10-9
EC number:	250-986-3.
1.2 SYNONYMS	Triphosgene Bis(trichloromethyl) carbonate Carbonic acid bistrichlor methyl ester.

SECTION 2: Hazards identification:

	Cl:f:+:
2.1 Classification of the	Classification according to
substance or mixture:	Regulation (EC) No 1272/2008 The
	substance is classified according to
	the CLP regulation.
Acute Oral toxicity:	Category 3
Acute Dermal toxicity:	Category 3
Acute inhalation toxicity	Category 2
Skin corrosion/irritation:	Category 1B
Serious eye damage/eye	Category 1
irritation	
2.2 Label elements:	
Harand nista avance	A A
Hazard pictograms:	AOA FEE
	(3%) (* e)
	V V
Signal Word:	Danger
Hazard Statement:	H301 - Toxic if swallowed
	H311 - Toxic in contact with skin
	H314 - Causes severe skin burns and
	eye damage
	H318 - Causes severe eye damage
	H330 - Fatal if inhaled
Precautionary Statements	P260 - Do not breathe
-	dust/smoke/gas/smoke/steam/spray



	DOCK NAC I I
	P264 - Wash face, hands and any
	exposed skin thoroughly after
	handling
	P271 - Use only outdoors or in a
	well-ventilated area
ECTN	P280 - Wear protective gloves/
	protective clothing/ eye protection/
	face protection
	P284 - Wear respiratory protection
Response:	P301 + P330 + P331 - IF
	SWALLOWED: rinse mouth. Do NOT
	induce vomiting
	P303 + P361 + P353 - IF ON SKIN (or
	hair): Remove/ Take off immediately
	all contaminated clothing. Rinse
	skin with water/
	shower P304 + P340 - IF INHALED: Remove
	to fresh air and keep at rest in a
	position comfortable for breathing 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 POISON
	CENTER or doctor/ physician
	P320 - Specific emergency
	treatment (see the first aid
	instructions provided on this label) .
	P363 - Wash contaminated clothing
	before reuse
VOUD OUT MIC	Storage
YOUR GHEMIC	P403 + P233 - Store in a well-
10011 OIILMIT	ventilated place. Keep container
	tightly closed P405 - Store locked
	up
Disposale	
Disposal:	P501 - Dispose of contents/
	container to an approved waste
Health Hazards:	disposal plant Toxic if swallowed. Toxic in contact
nediui nazdius:	
	with skin. Corrosive. Causes skin and
	eye burns. Causes serious eye
	damage. Fatal if inhaled



2.3 Other hazards:	No information found
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SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 32315-10-9 TRIPHOSGENE
Identification number(s):	EC number: 250-986-3.

SECTION 4: First aid measures

4.1 Description of first aid	
measures	
General information:	
After inhalation:	Remove to fresh air. If not breathing,
	give artificial respiration. If breathing is
	difficult, give oxygen. Call a physician
After Ingestion	DO NOT induce vomiting. Call a
	physician or Poison Control Center
	immediately.
After skin contact:	Wash off immediately with plenty of
	water for at least 15 minutes.
	Immediate medical attention is
	required.
After eye contact:	Immediately flush eyes with plenty of
	water for at least 15 minutes. Do not let
-	victim rub eyes. Get medical attention.
After swallowing:	If symptoms persist consult doctor.
4.2 Most important symptoms	can cause acute symptoms such as
and effects, both acute and	respiratory irritation, coughing, and
delayed	chest pain, followed by potential
TUUN UILIVIIU	delayed effects like pulmonary
	edema and difficulty breathing
	that may manifest up to 48 hours
	later.
4.3 Indication of any immediate	treatment involves supportive care
medical attention and special	such as oxygen therapy, potential
treatment needed	mechanical ventilation, and
	monitoring for delayed pulmonary
	edema, which can develop up to
	48 hours post-exposure.
	40 Hours post-exposure.



SECTION 5: Firefighting measures

5.1 Extinguishing media	Use water spray, foam, dry chemical, or carbon dioxide (CO2) to extinguish fires
5.2 Special hazards arising from the substance or mixture	The product causes burns of eyes, skin and mucous membranes. Contact with water liberates toxic gas
5.3 Advice for firefighters	Wear self-contained breathing apparatus (SCBA) and full protective gear to avoid exposure to any smoke or fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions,	Wear self-contained breathing
protective equipment and	apparatus (SCBA) and full protective
emergency procedures	gear to avoid exposure to any smoke
3 31	or fumes.
6.2 Environmental precautions:	Avoid release to the environment.
	Prevent spills from entering
	waterways, drains, or soil.
6.3 Methods and material for	Use absorbent materials such as sand,
containment and cleaning up:	clay, or commercially available
3 1	absorbent pads.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Wear suitable gloves, eye protection,
	and protective clothing to prevent skin
	and eye contact.
Information about fire - and	handle with care as it is moisture-
explosion protection:	sensitive and can react violently with
•	water, releasing toxic gases; suitable
	extinguishing media include dry
AUIIB GHEWIG	chemical powder, CO2, or alcohol-
I U U N U II L IVI I U	resistant foam.
7.2 Conditions for safe storage,	Store in a cool, dry place, away from
including any incompatibilities	moisture and direct sunlight.
Requirements to be met by	Ensure adequate ventilation in storage
storerooms and receptacles:	areas to prevent the accumulation of
	dust.



Information about storage in one common storage facility:	When storing with other chemicals, ensure that they are compatible to
	prevent adverse reactions.
7.3 Specific end use(s):	No information available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about	A system of local and general exhaust
design of technical facilities:	is recommended
8.2 Exposure controls	
Personal protective equipment:	Set up stations equipped with PPE (gloves, goggles, masks) near handling areas to ensure workers can quickly access necessary protective gear.
General protective and hygienic measures:	Wash hands thoroughly after handling and avoid eating, drinking, or smoking in areas.
	Respiratory protection: Required.
Protection of hands:	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Use gloves made of butyl rubber (butyl) - 0.7 mm coating thickness, chloroprene rubber (CR) - 0.5 mm coating thickness, fluoroelastomer (FKM) - 0.7 mm coating thickness
VOIID CHEMIC	Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Penetration time of glove material:	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
	Eye protection: Required



SECTION 9: Physical and chemical properties

9.1 Information on basic physical	
and chemical properties	
General Information	
Appearance: Form:	Solid
Colour:	White
Odour:	Musty odor
pH-value:	No information available
Melting point/Melting range:	77 - 81 °C / 170.6 - 177.8
Boiling point/Boiling range:	203 - 206 °C / 397.4 - 402.8 ° F
Flammability (solid, gaseous):	No information available
Ignition temperature:	No information available
Decomposition temperature:	>350°C
Self-igniting:	No information available
Danger of explosion:	No information available
Explosion limits: Lower:	No information available
Vapour pressure:	16 mbar @ 90 °C
Density at 20 °C:	1.78 g/cm ³
Relative density:	1.78 g/cm ³
Vapour density:	6.5
Evaporation rate:	0.3 mmHg at 25 °C (approx.)
Solubility in / Miscibility with-	
·water at 20 °C:	
Partition coefficient(n-	practically insoluble in water
octanol/water):	
Viscosity:	No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity	Heat sensitive. Moisture sensitive. Contact with water liberates toxic gas.
10.2 Chemical stability	stable at room temperature
10.3 Possibility of hazardous reactions	May release phosgene and hydrochloric acid when contact with water.
10.4 Conditions to avoid	To avoid thermal decomposition, do not overheat. Excess heat. Incompatible products. Exposure to moist air or water.
10.5 Incompatible materials:	Acids. Strong oxidizing agents. Strong bases. Amines.



10.6 Hazardous decomposition	Hydrogen chloride gas. Carbon
products:	monoxide (CO). Carbon dioxide
	(CO2). Chlorine. Phosgene

SECTION 11: Toxicological information

1010
LD50 Oral: >2000mg/kg (rat)
LD50 Dermal: 2000mg/kg (rat)
LC50 Inhalation: 41.5 mg/m³ (rat)
4h
Category 1
No data available
No data available
No carcinogenic chemicals found
No data available
No information available
Product is a corrosive material. Use
of gastric lavage or emesis is
contraindicated

SECTION 12: Ecological information

12.1 Toxicity:	Do not empty into drains
12.2 Persistence and	May persist, based on information
degradability:	available
12.3 Bioaccumulative potential:	May have some potential to
I O O II O II L IVI I O	bioaccumulate
12.4 Mobility in soil:	Spillage unlikely to penetrate soil
12.5 Other adverse effects	Not available



SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging:	Dispose of this container to
Recommendation:	hazardous or special waste
	collection point
Recommended cleansing agents:	Water, sodium
ECTN	bicarbonate(aqueous), toluene or
	chloroform.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	UN2928
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	6.1
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	Yes
14.6 Special precautions for user	See section 2.2
14.7 Transport in bulk according	IBC02
to Annex II of Marpol and the IBC Code	

SECTION 15: Regulatory information

15.1 Safety, health and environmental	classified as a substance under CLP regulation.
regulations/legislation specific for the substance or mixture Directive 2012/18/EU	A L D A D T N E D
Named dangerous substances	ANNEX I Substance is listed
15.2 Chemical safety assessment:	No data available

SECTION 16: Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to



ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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