

Safety Data Sheet M015403 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/13/2020 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name : Phosphonitrilic chloride trimer			
CAS No	: 940-71-6		
Product code	: M015-4-03		
Formula	: CI6N3P3		
Synonyms		2,2,4,4,6,6-Hexachloro-2,2,4,4,6,6-hexahydro	-135246-
	triazatriphosphorine; Cyclopho Tris(phosphonitriliic chloride)	sphonitrilic chloride trimer; Triphosphonitrile cl	
Other means of identification	: MFCD00006474		
1.2. Relevant identified uses of the	substance or mixture and uses advis	ed against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develo	oment	
1.3. Details of the supplier of the sa	fety data sheet		
SynQuest Laboratories, Inc.			
P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - <u>www.synquestlab</u>			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company	- Account 10069)	
SECTION 2: Hazard(s) identificat	ion		
2.1. Classification of the substance			
2.1. Classification of the substance	or mixture		
Classification (GHS-US)			
Skin Corr. 1BH314 - Causes severe skinEye Dam. 1H318 - Causes serious eyeSTOT SE 3H335 - May cause respiratFull text of H-phrases: see section 16	e damage		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
	GHS05 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H314 - Causes severe skin bu H335 - May cause respiratory		
Precautionary statements (GHS-US)	 P260 - Do not breathe dust, m P264 - Wash skin thoroughly a P271 - Use only outdoors or ir P280 - Wear protective gloves P301+P330+P331 - If swallow P303+P361+P353 - If on skin skin with water/shower P304+P340 - If inhaled: Remo P305+P351+P338 - If in eyes: lenses, if present and easy to P310 - Immediately call a POI P321 - Specific treatment (see P363 - Wash contaminated close 	st, spray fter handling a well-ventilated area (protective clothing/eye protection/face protect ed: rinse mouth. Do NOT induce vomiting or hair): Take off immediately all contaminated ve person to fresh air and keep comfortable fo Rinse cautiously with water for several minute to. Continue rinsing SON CENTER or doctor/ physician supplemental first aid instructions on this labe	d clothing. Rinse r breathing s. Remove contact
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P501 - Dispose of contents/container to an approved waste disposal plant

	P507	1 - Dispose of contents	container to an ap	proved waste dis	sposal plant
2.3. Other hazards					
Other hazards not contributing to lassification	the : Read	cts violently with water.			
4. Unknown acute toxic	ity (GHS US)				
ot applicable					
ECTION 3: Composition	n/information on ir	ngredients			
1. Substance					
ubstance type	: Mon	o-constituent			
Name		Product identifier		%	Classification (GHS-US)
Phosphonitrilic chloride trimer (Main constituent)		(CAS No) 940-71-6		<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
ull text of H-phrases: see sectio	n 16	·	·	-	
2. Mixture					
ot applicable					
ECTION 4: First aid me	asures				
1. Description of first ai	d measures				
rst-aid measures general	wher	re possible). Move the	affected personnel	away from the c	
irst-aid measures after inhalatio	resp	iration. Get immediate	medical advice/atte	ention.	g. If not breathing, give artificial
irst-aid measures after skin con	med	ical advice/attention.			othing and shoes. Get immediate
irst-aid measures after eye cont	pres	ent and easy to do. Co	ntinue rinsing. Get	immediate medi	
irst-aid measures after ingestior		NOT induce vomiting. N th out with water. Get in			unconscious person. Rinse
.2. Most important symp	toms and effects, both	acute and delayed			
ymptoms/injuries		most important known and/or in section 11.	symptoms and effe	cts are describe	d in the labelling (see section
symptoms/injuries after inhalatio		erial is destructive to tis these of breath, heada		s membranes ar	nd upper respiratory tract. Cough,
.3. Indication of any imm	ediate medical attentio	on and special treatm	ent needed		
reat symptomatically.					
ECTION 5: Firefighting	measures				
1. Extinguishing media					
uitable extinguishing media	: Dry	powder. Use extinguish	ing media appropri	ate for surround	ling fire.
2. Special hazards arisi	ng from the substance	or mixture			
re hazard	•		erates: Hydrogen	chloride. Nitroge	n oxides. Phosphorus oxides.
3. Advice for firefighters				-	
irefighting instructions		ase of fire: Evacuate ar	ea.		
rotection during firefighting	: Wea	r gas tight chemically p	rotective clothing in		ith self contained breathing controls/personal protection".
SECTION 6: Accidental r	elease measures				
.1. Personal precautions	, protective equipment	and emergency proc	edures		
eneral measures		cuate unnecessary per	sonnel. Ensure ade	quate air ventila	tion. Do not breathe dust.
.1.1. For non-emergency p		qualified personnel as		e protoctivo ocu	inment may intervene
mergency procedures	: Only	qualified personnel eq	uipped with suitable	e protective equ	ipment may milervene.
.1.2. For emergency respo					
rotective equipment		ot attempt to take action to section 8: "Exposur			ment. For further information
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6.2. Environmental precautions		
Avoid release to the environment. Notify authori	ties if product enters sewers or public waters.	
6.3. Methods and material for containm	ent and cleaning up	
For containment	: Stop leak if safe to do so.	
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.	
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4. Reference to other sections		
No additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. Handle under inert gas. Protect from moisture.	
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, include	ing any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage area	: Store in dry, cool, well-ventilated area.	
SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 111 - 112 °C
Freezing point	: No data available
Boiling point	: 127 °C (@ 13 mm Hg)
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available

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Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.98 g/ml (@ 25 °C)
Molecular mass	: 347.659 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	

No additional information available

SECT	ON 10: Stability and reactivity	
10.1.	Reactivity	
No addi	tional information available	
10.2.	Chemical stability	
The pro	duct is stable at normal handling and storage conditions.	
10.3.	Possibility of hazardous reactions	
No addi	tional information available	
10.4.	Conditions to avoid	
Keep away from heat, sparks and flame. Water, humidity.		
10.5.	Incompatible materials	
Alcohols	s. Amines. Bases. Oxidizing agents. Water.	
10.6.	Hazardous decomposition products	

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Causes severe skin burns and eye damage.		
Serious eye damage/irritation	: Causes serious eye damage.		

Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTI	ON 12: Ecological information	h	
12.1.	Toxicity		
No addit	ional information available		
12.2.	Persistence and degradability		
No addit	ional information available		
12.3.	Bioaccumulative potential		
No addit	ional information available		

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

	: No supplementary information a	valiasie.	
Other information	carrying a number of passenger passenger per each 3 m of over vessels in which the limiting num	s limited to not more than the larger of 25 passenger all vessel length, but the material is prohibited on pa aber of passengers is exceeded.	rs or one
CFR 175.75) DOT Vessel Stowage Location	0	I "on deck only" on a cargo vessel and on a passen	aer vesse
DOT Quantity Limitations Cargo aircraft only (49	: 50 kg		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 15 kg		
DOT Packaging Exceptions (49 CFR 173.xxx)	: None		
Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols DOT Special Provisions (49 CFR 172.102)	plastics (11H1, 11H2, 21H1, 21H 21HZ2, 31HZ1 and 31HZ2). Ad not be used when the hazardou transport. IP2 - When IBCs other than met transportation in a closed freight T3 - 2.65 178.274(d)(2) Normal. TP33 - The portable tank instruc powdered solids and for solids w melting point which are cooled a or offered for transport above th tanks conforming to the provisio packing group III or T7 for solid stringent requirements for minim pressure-relief devices or bottor instruction and special provision tank special provision TP3. Solid	A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); R 42, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21 ditional Requirement: Composite IBCs 11HZ2 and 2 s materials being transported may become liquid dur al or rigid plastics IBCs are used, they must be offer container or a closed transport vehicle.	HZ1, 1HZ2 ma ing ed for and te their ansported portable is of iore essure, ent tank th portable material
UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)	 : UN3096 : Corrosive solids, water-reactive. : 8 - Class 8 - Corrosive material : 8 - Corrosive 4.3 - Dangerous when wet 		
Department of Transportation (DOT) In accordance with DOT Transport document description	: UN3096 Corrosive solids, water	reactive, n.o.s., 8, II	
SECTION 14: Transport information			
Waste disposal recommendations Additional information	: Recycle the material as far as p	accordance with licensed collector's sorting instruct ossible.	IONS.
Waste treatment methods		rator equipped with an afterburner and a flue gas sci	
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TDG

No additional information available

Transport by sea	
UN-No. (IMDG)	: 3096
Proper Shipping Name (IMDG)	: CORROSIVE SOLID, WATER-REACTIVE, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 3096
Proper Shipping Name (IATA)	: Corrosive solid, water-reactive, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

	Phosphonitrilic chloride trimer	
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CAS No 940-71-6

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
NFPA specific hazard	: W - Unusual reactivity with water. This indicates a potential hazard using water to fight a fire involving this material. When a compound is both water-reactive and an oxidizer, the W/bar symbol should go in this quadrant and the OX warning is placed immediately below the NFPA diamond.

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HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.