

CHLORO MAXX 90



MATERIAL SAFETY DATA SHEET (MSDS)

SECTIC	DN 1: Identificatio	n of the substance/mixture and	l of the company/underte	aking	
1.1.	Product identifie	er			
Product Product	name :	CHLORO MAXX 90 NXP90			
1.2.	Relevant identif	ied uses of the substance or mi	xture and uses advised a	gainst	
1.2.1.	For Pool and Sp	a			
1.3.	Details of the su	upplier of the safety data sheet			
	ZYAX CHEM PV 3rd Floor, Kame 38 Cawasji Pate Mumbai - 40000 Contact No: +91 info@zyax.in - w	r Building, I Street, Fort,)1, India. 8779240420			
1.4.	Emergency tele	phone number			
	Emergency num	ber : +91 22 2757 3899			
SECTIC	DN 2: Hazards ide	entification			
2.1.	Classification of	f the substance or mixture			
CLP Clo	assification - Regul	ation (EC) No 1272/2008			
Physica	l hazards				
Oxidizir	ng solids			Category 2 (H272)	
Health	hazards				
Serious Specific		Irritation city - (single exposure)		Category 4 (H302) Category 2 (H319) Category 3 (H335)	
Environ	mental hazards				
	iquatic toxicity c aquatic toxicity			Category 1 (H400) Category 1 (H410)	
Full text	t of Hazard Statem	nents: see section 16			
2.2.	Label elements				
		Signal Word	Danger		
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Hazard Statements	H272 - May intensify fire; oxidizer H302 - Harmful if swallowed H319 - Causes serious eye irritation H335 - May cause respiratory irritation H410 - Very toxic to aquatic life with long lasting effects EUH031 - Contact with acids liberates toxic gas
Precautionary Statements	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

Toxicity to Soil Dwelling Organisms Toxic to terrestrial vertebrates

SECTION 3: Composition/information On Ingredients

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Trichloro-S-triazinetrione	87-90-1 / EEC No. 201-782-8	97	Ox. Sol. 2 (H272) Acute Tox. 4 (H302) Eye Irrit. 2 (H319) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) [EUH031]
Trichloro-S-triazinetrione	-	10	-

Full text of H-statements: see section 16

SECTION 4: First Aid Measures	
4.1. Description of first aid measu	res
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention. Take off contaminated clothing and shoes immediately.
Ingestion	Clean mouth with water. Get medical attention.
Inhalation	Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Self-Protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.





4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Water spray, Carbon dioxide (CO 2), Dry chemical, Chemical foam.

: No information available.

Extinguishing media which must not be used for safety reasons

5.2. Special hazards arising from the substance or mixture

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

Section 7: Handling And Storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from clothing and other combustible materials.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store near combustible materials.

Store under an inert atmosphere.



7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure Controls / Personal Protection

8.1. Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

Derived No Effect Level (DNEL)		No information ava	No information available			
Route of exposure	Acute effects	Acute effects	Chronic effects	Chronic effects		
Oral	(local)	(systemic)	(local)	(systemic)		
Dermal						
Inhalation						

Predicted No Effect Concentration (PNEC) : No information available.

8.2. Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment	nent			
Eye Protection	Gog	gles (European standard	- EN 166)	
Hand Protection	Protective gloves			
Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Natural rubber	See manufacturers	-	EN 374	(minimum requirement)
Butyl rubber				
Nitrile rubber				
Neoprene				
PVC				
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure			

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Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection	When workers are facing concentrations above the exposure limit they must use \ appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particulates filter conforming to EN 143
Small scale/Laboratory use	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141 When RPE is used a face piece Fit Test should be conducted
Environmental exposure controls	Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical And Chemical Properties

9.1. Information on basic physical and c	nemical properties
Physical State	Powder Solid
Appearance	White
Odor	Pungent
Odor Threshold	No data available
Melting Point/Range	245 - 251 °C / 473 - 483.8 °F
Softening Point	No data available
Boiling Point/Range	No information available
Flammability (liquid)	Not applicable Solid
Flammability (solid,gas)	No information available
Explosion Limits	No data available
Flash Point	No information available Method - No information available
Autoignition Temperature	No data available
Decomposition Temperature	225 °C
pH	3.0 1% aq.sol
Viscosity	Not applicable Solid
Water Solubility	12 g/L (25°C)
Solubility in other solvents	No information available
Partition Coefficient (n-octanol/water)	
Vapor Pressure	No data available
Density / Specific Gravity	No data available
Bulk Density	No data available
Vapor Density	Not applicable Solid
Particle characteristics	No data available





9.2. Other information

Molecular Formula	C3 Cl3 N3 O3
Molecular Weight	232.41
Oxidizing Properties	Oxidizer
Evaporation Rate	Not applicable - Solid

SECTION 10: Stability and reactivity

10.1. Reactivity

Yes

10.2. Chemical stability

Stable under normal conditions, Hygroscopic, Oxidizer: Contact with combustible/organic material may cause fire.

10.3.	Possibility of hazardous reactions	

Hazardous Polymerization	: No information available.
Hazardous Reactions	: No information available.

10.4. Conditions to avoid

Incompatible products. Exposure to moist air or water. Excess heat. Combustible material.

10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong reducing agents. Combustible material.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen chloride gas.

SECTION 11: Toxicological Information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information	
(a) acute toxicity;	
Oral	Category 4
Dermal	Based on available data, the classification criteria are not met
Inhalation	Based on available data, the classification criteria are not met

		LD50 C LD50 =	Dral = 406 mg/kg (Rat)	LD50 Dermal LD50 > 2000 mg/kg (Rabbit)	LC50 Inhalation LC50 > 5.25 mg/L (Rat) 4 h			
(b)	skin corrosion/irritation;		No data available					
(c)	serious eye damage/irritation;		Category 2					
(d)	respiratory or skin sensit Respiratory Skin	ization;	No data available No data available					
(e)	germ cell mutagenicity;		No data available					
(f)	carcinogenicity;		No data available There are no known care	cinogenic chemicals in this product				

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(g)	reproductive toxicity;	No data available				
(h)	STOT-single exposure; Results / Target organs	Category 3 Respiratory system.				
(i)	STOT-repeated exposure; Target Organs	No data available No information available.				
(i)	aspiration hazard;	Not applicable Solid				
Other Adverse Effects		The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information				
Symptoms / effects,both acute and delayed		No information available.				
11.2.	Information on other hazards					
Endocrine Disrupting Properties		Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.				

SECTION 12: Ecological Information

Ecotoxicity effects	The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic						
Component	environment. Freshwater Fish	Water Flea	Freshwater Algae				
Trichloro-S-triazinetrione	LC50: 0.13 - 0.5 mg/L, 96h static (Lepomis macrochirus) LC50: 0.06 - 0.11 mg/L, 96h static (Oncorhynchus mykiss)	(Lepomis macrochirus)Static (Daphnia magna)0.06 - 0.11 mg/L, 96h staticEC50: = 0.21 mg/L, 48h					
Component	Microtox	M-Factor					
Trichloro-S-triazinetrione		10					
12.2. Persistence and degra	ıdability						
Persistence Degradation in sewage	Soluble in water, Persistence is unlike Contains substances known to be ha						

Persistence	Soluble in water, Persistence is unlikely, based on information available.
Degradation in sewage	Contains substances known to be hazardous to the environment or not degradable in waste
treatment plant	water treatment plants.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely

12.4. Mobility in soil

The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

12.5. Results of PBT and vPvB assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

12.6. Endocrine disrupting properties

Endocrine Disruptor Information





12.7. Other adverse effects					
Persistent Organic Pollutant Ozone Depletion Potential	This product does not contain any known or suspected substance This product does not contain any known or suspected substance				
SECTION 13: Disposal considerations					
13.1. Waste treatment methods					
Waste from Residues/Unused Products	Should not be released into the environment. Waste is classified as hazardous. Dispo of in accordance with the European Directives on waste and hazardous waste. Dispos of in accordance with local regulations.				
Contaminated Packaging	Dispose of this container to hazardous or special waste collection point.				
European Waste Catalogue (EWC)	According to the European Waste Catalog, Waste Codes are not product specific, but application specific.				
Other Information	Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not let this chemical enter the environment.				
SECTION 14: Transport Information					
IMDG/IMO					
14.1. UN number					

14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	TRICHLOROISOCYANURIC ACID, DRY 5.1 II
ADR	
14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	UN2468 TRICHLOROISOCYANURIC ACID, DRY 5.1 II
ΙΑΤΑ	
14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	UN2468 TRICHLOROISOCYANURIC ACID, DRY 5.1 II
14.5. Environmental hazards	Dangerous for the environment Product is a marine pollutant according to the criteria set by IMDG/IMO
14.6. Special precautions for user	No special precautions required
14.7. Maritime transport in bulk according to IMO instruments	No special precautions required

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

X = listed, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS), Australia (AICS), Korea (ECL).





Component	ELINCS	ELINCS	NLP TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Trichloro-S-triazinetrione	201-782-8	-	Х	Х	-	Х	Х	Х	Х	KE-34101

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals Not applicable

National Regulations WGK Classification

See table for values

Component Trichloro-S-triazinetrione

Germany - Water Classification (VwVwS)

Germany - TA-Luft Class

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK2

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H272 - May intensify fire; oxidizer

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

EUH031 - Contact with acids liberates toxic gas

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text