

Revised edition no: 0
Date: 6 / 12 / 2016
Supersedes: 0 / 0 / 0

Chlorine SDS\_CL2









2.3 : Toxic gases

5.1 : Oxidizing substances

8 : Corrosive substances

9E : Environmentally hazardous substances

## **Danger**









## SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1.Product identifier

Trade name : Chlorine

SDS Nr : SDS\_CL2

Chemical description : Chlorine

CAS No :7782-50-5 EC No :231-959-5 Index No :017-001-00-7

**Registration-No.** : 01-2119486560-35-

Chemical formula : Cl2

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Industrial and professional. Perform risk assessment prior to use.

Test gas/Calibration gas. Laboratory use. Chemical reaction / Synthesis. Contact supplier for more information on uses.

Uses advised against : Consumer use.

## 1.3 Details of the supplier of the safety data sheet

Company identification : STEELMAN GASES PVT LTD

Rajkot Highway, Vill. Shekhpar

Surendranagar info@steelmangas.com www.steelmangas.com

1.4. Emergency telephone number

Emergency telephone number : +91 9825188035

## **SECTION 2. Hazards identification**

## 2.1. Classification of the substance or mixture

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

• Health hazards : Acute toxicity, Inhalation - Category 2 - Danger - (CLP : Acute Tox. 2)

- H330 Skin irritation - Category 2 - Warning - (CLP: Skin Irrit. 2) - H315 Eye irritation - Category 2 - Warning - (CLP: Eye Irrit. 2) - H319 Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning - (CLP: STOT SE 3) - H335 - Oxidizing gases - Category 1 - Danger - (CLP: Ox. Gas. 1) - H270

• Physical hazards

: Oxidizing gases - Category 1 - Danger - (CLP: Ox. Gas 1) - H270

Gases under pressure - Liquefied gas - Warning - (CLP: Press. Gas) -

H280

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• Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 -

Warning - (CLP: Aquatic Acute 1) - H400

Classification EC 67/548 or EC 1999/45 : T; R23 Xi; R36/37/38 N; R50

## **SECTION 2. Hazards identification (continued)**

#### 2.2. Label elements

Labelling Regulation EC

Hazard pictograms









1272/2008 (CLP)

· Hazard pictograms code

Signal word

Hazard statements

: GHS06 - GHS03 - GHS04 - GHS09

: Danger

: H270 - May cause or intensify fire; oxidiser.

H280 - Contains gas under pressure; may explode if heated.

H330 - Fatal if inhaled.

H319 - Causes serious eye irritation. H315 - Causes skin irritation. H400 - Very toxic to aquatic life.

: EUH071 - Corrosive to respiratory tract.

• Supplemental hazard information

Precautionary statements

- Prevention

: P260 - Do not breathe gas, vapours.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection.

P244 - Keep valves and fittings free from oil and grease

P273 - Avoid release to the environment. P220 - Keep away from combustible materials.

- Response : P304+P340+P315 - IF INHALED : Remove victim to fresh air and

keep at rest in a position comfortable for breathing. Get immediate

medical advice / attention.

P305+P351+P338+P315 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice / attention. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P370+P376 - In case of fire : Stop leak if safe to do so.

P332+P313 - If skin irritation occurs : Get medical advice/attention.

: P403 - Store in a well-ventilated place.

P405 - Store locked up.

2.3. Other hazards

- Storage

: None.

## **SECTION 3. Composition/information on ingredients**

## 3.1. Substance / 3.2. Mixture

· · · · · · · · · · · · · · · · · · ·				
Substance	Contents	CAS No, EC No, Index No	Classification(DSD)	Classification(CLP)
name		Registration no		
Chlorine	100 %	7782-50-5, 231-959-5, 017-001-00-7, 01-2119486560-35-	T; R23, Xi; R36/37/38,N; R50	Acute Tox. 2 (H330), Ox. Gas 1 (H270), Eye irrit 2 (H319), Skin Irrit. 2 (H315), STOT SE 3 (H335), Press. Gas Liquefied (H280), Aquatic Acute 1 (H400), (M fact. = 100)

Contains no other components or impurities which will influence the classification of the product.

- \* 1: Listed in Annex IV / V REACH, exempted from registration.
- \* 2: Registration deadline not expired.
- \* 3: Registration not required: Substance manufactured or imported < 1t/y.

Full text of R-phrases see section 16. Full text of H-statements see section 16.



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## **SECTION 4. First aid measures**

- Skin contact

- Ingestion

## 4.1. Description of first aid measures

- Inhalation : Remove victim to unc

: Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor.

Apply artificial respiration if breathing stopped.

: Remove contaminated clothing. Drench affected area with water for

at least 15 minutes.

- Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.

: Ingestion is not considered a potential route of exposure.

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

: May cause irritation to cornea (with temporary disturbance to vision). May cause irritation to skin. Refer to section 11.

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

: Obtain medical assistance.

Treat with corticosteroid spray as soon as possible after inhalation.

## **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray or fog. Foam.

- Unsuitable extinguishing media : Do not use water jet to extinguish.

## 5.2. Special hazards arising from the substance or mixture

Specific hazards

: Supports combustion. Exposure to fire may cause containers to

rupture/explode.

**Hazardous combustion products** 

5.3. Advice for fire-fighters

Specific methods

: None.

: Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases fro If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible.

Special protective equipment for fire

fighters

: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

## **SECTION 6. Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

: Try to stop release. Evacuate area. Monitor concentration of released product. Ensure adequate air ventilation. Eliminate ignition sources. Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be

**6.2. Environmental precautions**dangerous.
: Try to stop release.

Reduce vapour with fog or fine water spray.

## 6.3. Methods and material for containment and cleaning up

: Ventilate area. Wash contaminated equipment or sites of leaks with

copious quantities of water. Hose down area with water.

**6.4. Reference to other sections** : See also sections 8 and 13.



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## **SECTION 7. Handling and storage**

## 7.1. Precautions for safe handling Safe use of the product

Safe handling of the gas receptacle

: Only experienced and properly instructed persons should handle gases under pressure. The substance must be handled in accordance with good industrial hygiene and safety procedures. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Avoid exposure, obtain special instructions before use. Use no oil or grease. Do not smoke while handling product. Ensure the complete gas system was (or is regularly) checked for leaks before use. Installation of a cross purge assembly between the cylinder and the regulator is recommended. Purge system with dry inert gas (e.g. helium or nitrogen) before gas is introduced and when system is placed out of service. Avoid suck back of water, acid and alkalis. Consider pressure relief device(s) in gas installations.

: Refer to supplier's container handling instructions. Open valve slowly to avoid pressure shock. Do not allow back feed into the container. Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. If user experiences any difficulty operating cylinder valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to transfer gases from one cylinder/container to another. Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.

## 7.2. Conditions for safe storage, including any incompatibilities

: Segregate from flammable gases and other flammable materials in store. Keep container below 50°C in a well ventilated place. Containers should be stored in the vertical position and properly secured to prevent toppling. Stored containers should be periodically checked for general condition and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition. Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Keep away from combustible materials.

## 7.3. Specific end use(s)

: None.



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## **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Occupational Exposure Limits Chlorine

```
: Value 15min. (CZ) [mg/m3]: 3
: Value 8h (CZ) [mg/m3] : 1.5
: ILV (EU) - 15 min - [mg/m³] : 1.5
: ILV (EU) - 15 min - [ppm] : 0.5
: STEL - UK [mg/m<sup>3</sup>] : 1.5
: STEL - UK [ppm] : 0.5
: VLE - France [mg/m3] : 1.5
: VLE - France [ppm] : 0.5
: AGW (8h) - Germany [mg/m3] TRGS 900 : 1.5
: AGW (8h) - Germany [ppm] TRGS 900 : 0.5
Exceeding factor AGW - Germany TRGS 900 : 1
: MAK (AU) Tagesmittelwert (ml/m3): 0.5
: MAK (AU) Tagesmittelwert (mg/m3): 1.5
: MAK (AU) Kurzzeitwerte (ml/m³) : 0.5
 MAK (AU) Kurzzeitwerte (mg/m³): 1.5
: VLA-EC - Spain [ppm] : 0.5
: VLA-EC - Spain [mg/m3] : 1.5
: NGV - [ppm] : 0.5
: NGV - [mg/m3]: 1.5
: HTP-värden - 15min - [ppm] : 0.5
: HTP-värden - 15min - [mg/m<sup>3</sup>] : 1.5
: Grenseverdi (NO) 8 timers [ppm] : 0.5
: Grenseverdi (NO) 8 timers [mg/m³] : 1.5
: TGG 15 min (NL) (mg/m3) : 1.5
: VLE-CH [mg/m3]: 1.5
: VLE-CH [ppm] : 0.5
: VME-CH [mg/m3] : 1.5
: 8-Hour TWA (PL) (NDS) (mg/m³) : 0.7
: 15-Minute STEL (PL)(NDSCh) (mg/m³) : 1.5
: Valori Limite di Soglia (IT) Breve Term [ppm] : 0.5
: Valori Limite di Soglia (IT) Breve Termine [mg/m3] : 1.5
: TLV-STEL (Belgium) (ppm): 0.5
: STEL BE 15min [mg/m3] : 1.5
: Valoare limita maxima (RO) Termen scurt 15min [mg/m³] : 1.5
: Valoare limita maxima (RO) Termen scurt 15min [ppm] : 0.5
: STEL LT 15min [ppm]: 0.5
: STEL LT 15min [mg/m3] : 1.5
: STEL BG 15min [mg/m3]: 1.5
: STEL EE 15min [ppm] : 0.5
: STEL EE 15min [mg/m3]: 1.5
: STEL LV 15min [ppm] : 0.5
: STEL LV 15min [mg/m3] : 1.5
: STEL MT 15min [ppm] : 0.5
: STEL MT 15min [mg/m3]: 1.5
: STEL CY 15min [mg/m3]: 1.5
 STEL CY 15min [ppm]: 0.5
: Tentativ Grænserværdi (DK) (ppm) : 1.5
: TLV© -TWA [ppm] : 0.5
: TLV© -STEL [ppm] : 1
: TGV - [mg/m³] : 3
: TGV - [ppm] : 1
```



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## SECTION 8. Exposure controls/personal protection (continued)

DNEL: Derived no effect level (Workers)

Chlorine

PNEC: Predicted no effect concentration Chlorine

8.2. Exposure controls

8.2.1. Appropriate engineering Controls

8.2.2. Individual protection measures, e.g. personal protective equipment

- Eye/face protection
- Skin protection
- Hand protection

- Other
- · Respiratory protection

: Inhalation-short term (local) [mg/m3] : 1.5 : Inhalation-short term (systemic) [mg/m3] : 1.5 : Inhalation-long term (local) [mg/m3] : 0.75

: Inhalation-long term (systemic) [mg/m3] : 0.75

: Aqua (freshwater) [mg/l] : 0.00021 : Aqua (marine water) [mg/l] : 0.000042 : Aquatic, intermittent releases [mg/l] : 0.00026

: Micro-organisms or PNEC sewage treatment plant (STP) [mg/l] : 0.03

- : Product to be handled in a closed system. Ensure exposure is below occupational exposure limits (where available). Consider work permit system e.g. for maintenance activities. Preferably use only permanent leak-tight installations (e.g. welded pipes). Systems under pressure should be regularly checked for leakages. Provide adequate general and local exhaust ventilation. Alarm detectors should be used when toxic gases may be released.
- : A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered: PPE compliant to the recommended EN/ISO standards should be selected. Protect eyes, face and skin from liquid splashes.
- : Wear safety glasses with side shields. Wear goggles and a face shield when transfilling or breaking transfer connections. Standard EN 166 Personal eye-protection. Provide readily accessible eye wash stations and safety showers.
- : Wear working gloves when handling gas containers. Standard EN 388 Protective gloves against mechanical risk. Wear chemically resistant protective gloves. Standard EN 374 Protective gloves against chemicals. Permeation time: minimum >30min short term exposure; material / thickness [mm]: Chloroprene rubber (CR) / 0,4 Permeation time: minimum >480min long term exposure; material / thickness [mm]: Fluoroelastomer (FKM) / 0,7 The breakthrough time of the selected gloves must be greater than the intended use period. Consult glove manufacturer's product information on material suitability and material thickness.
- : Wear safety shoes while handling containers. Standard EN ISO 20345 Personal protective equipment Safety footwear. Keep suitable chemically resistant protective clothing readily available for emergency use. Standard EN943-1 Full protective suits against liquid, solid and gaseous chemicals.
- : Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known. Use gas filters and full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers. Recommended: Filter B (grey). Consult respiratory device supplier's product information for the selection of the appropriate device.



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## SECTION 8. Exposure controls/personal protection (continued)

Gas filters do not protect against oxygen deficiency. Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136. Keep self contained breathing apparatus readily available for emergency use. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.

: None necessary.

: Gas. : Greenish gas.

: 71

: -101

: -34

: 144

: 6.8 bar

: 2.5

: 1.6

: 8620

: Pungent.

overexposure.

: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

: Odour threshold is subjective and inadequate to warn for

: If dissolved in water pH-value will be affected.

: Not applicable for gases and gas-mixtures.

: Not applicable for gases and gas-mixtures.

## **SECTION 9. Physical and chemical properties**

Thermal hazards

8.2.3. Environmental exposure controls

## 9.1. Information on basic physical and chemical properties

Appearance

Physical state at 20°C / 101.3kPa

Colour Odour

**Odour threshold** 

pH value Molar mass [q/mol]

Melting point [°C] Boiling point [°C]

Critical temperature [°C]

Flash point [°C]

Evaporation rate (ether=1) Flammability range [vol% in air]

Vapour pressure [20°C] Relative density, gas (air=1) Relative density, liquid (water=1)

Solubility in water [mg/l]

Partition coefficient n-octanol/water [

log Kow]

Auto-ignition temperature [°C] Viscosity at 20°C [mPa.s]

**Explosive Properties Oxidising Properties** - Coefficient of oxygen equivalency (Ci)

9.2. Other information

Other data

: Not applicable. : Not applicable.

: Not applicable for inorganic gases.

: Not applicable. : Oxidiser. : 0.7

ISO 11114.

: Non flammable.

: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

## **SECTION 10. Stability and reactivity**

## 10.1. Reactivity

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

10.2. Chemical stability

10.5. Incompatible materials

: No reactivity hazard other than the effects described in sub-sections

Stable under normal conditions.

: Violently oxidises organic material.

: Avoid moisture in installation systems.

: May react violently with combustible materials. May react violently with reducing agents. Reacts with water to form corrosive acids. May react violently with alkalis. With water causes rapid corrosion of some metals. Moisture. For additional information on compatibility refer to

10.6. Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## **SECTION 11. Toxicological information**

## 11.1. Information on toxicological effects

**Acute toxicity** 

Rat inhalation LC50 [ppm/4h]

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitisation

Carcinogenicity
Germ cell mutagenicity
Reproductive toxicity

STOT-single exposure

STOT-repeated exposure Aspiration hazard : Delayed fatal pulmonary oedema possible.

: 146.Ś

: May cause inflammation of the skin. Severe corrosion to skin at high

concentrations.

: Severe corrosion to the eyes at high concentrations.

: No known effects from this product.: No known effects from this product.: No known effects from this product.: No known effects from this product.

: Severe corrosion to the respiratory tract at high concentrations. May

cause inflammation of the respiratory system. : No known effects from this product.

: Not applicable for gases and gas-mixtures.

## **SECTION 12. Ecological information**

#### 12.1. Toxicity

EC50 48h - Daphnia magna [mg/l]

EC50 72h Algae [mg/l] LC50-96 h - fish [mg/l]

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

## 12.5. Results of PBT and vPvB assessment

#### 12.6. Other adverse effects

Effect on ozone layer

Effect on the global warming

: Very toxic to aquatic life.

: 0.141

: 0.001 - 0.01

: 0.032

: Not applicable for inorganic gases.

: No data available.

: Because of its high volatility, the product is unlikely to cause ground or water pollution.

: Not classified as PBT or vPvB.

: Not classified as PBT of VPVB.

: May cause pH changes in aqueous ecological systems.

: None.

: No known effects from this product.

#### **SECTION 13. Disposal considerations**

## 13.1. Waste treatment methods

: Must not be discharged to atmosphere. Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at http://www.eiga.org for more guidance on suitable disposal methods. Consult supplier for specific recommendations. Ensure that the emission levels from local regulations or operating permits are not exceeded.

: 16 05 04: Gases in pressure containers (including halons) containing

dangerous substances.

dangerous substances : None.

# 13.2. Additional information SECTION 14. Transport information

List of hazardous wastes

## UN number

1017

Labelling ADR, IMDG, IATA









: 2.3 : Toxic gases

5.1 : Oxidizing substances8 : Corrosive substances

9E: Environmentally hazardous substances



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## **SECTION 14. Transport information (continued)**

Land transport (ADR/RID)

H.I. nr : 265 : CHLORINE UN proper shipping name Transport hazard class(es) : 2 : 2 TOC Classification code Packing Instruction(s) : P200

**Tunnel Restriction** : C/D : Passage forbidden through tunnels of category C when carried in tanks. Passage forbidden through tunnels of category D and E.

: Environmentally hazardous substance / mixture.

**Environmental hazards** 

Sea transport (IMDG)

: CHLORINE Proper shipping name : 2.3 Emergency Schedule (EmS) - Fire : F-C Emergency Schedule (EmS) - Spillage : S-U Packing instruction : P200 **IMDG-Marine** pollutant : Yes

Air transport (ICAO-TI / IATA-DGR)

Proper shipping name (IATA) : CHLORINE

Class

: DO NOT LOAD IN PASSENGER AIRCRAFT. Passenger and Cargo Aircraft

: 2.3

Cargo Aircraft only : FORBIDDEN.

Special precautions for user

: Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an

accident or an emergency.

Before transporting product containers: - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking.

- Ensure valve outlet cap nut or plug (where provided) is correctly fitted

- Ensure valve protection device (where provided) is correctly fitted.

- Ensure there is adequate ventilation. : Not applicable.

Transport in bulk according to Annex

II of MARPOL 73/78 and the IBC Code

## **SECTION 15. Regulatory information**

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

EU legislation

Restrictions on use : None. Seveso directive 96/82/EC : Listed. National legislation

National legislation

: Ensure all national/local regulations are observed.

15.2. Chemical safety assessment : CSA has been carried out.

#### **SECTION 16. Other information**

Indication of changes

: Revised safety data sheet in accordance with commisssion regulation

(EU) No 453/2010.

**Training advice** : Users of breathing apparatus must be trained. Ensure operators

understand the toxicity hazard. : R23: Toxic by inhalation.

List of full text of R-phrases in section

R36/37/38: Irritating to eyes, respiratory system and skin. R50: Very

toxic to aquatic organisms.

List of full text of H-statements in

section 3.

: H270 - May cause or intensify fire; oxidiser.

H280 - Contains gas under pressure; may explode if heated.

H315 - Causes skin irritation. H319 - Causes serious eye irritation.

H330 - Fatal if inhaled.

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H335 - May cause respiratory irritation.

## **SECTION 16. Other information (continued)**

**Further information** 

**DISCLAIMER OF LIABILITY** 

H400 - Very toxic to aquatic life.

- : This Safety Data Sheet has been established in accordance with the applicable European Union legislation.
- : Details given in this document are believed to be correct at the time of going to press. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

**End of document**