

SDS

SAFETY DATA SHEET

Oakwood Products, Inc
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Estill, SC 29918
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Phone Numbers:

Product Information	803-739-8800
Transportation Emergency	800-451-8346
Outside the USA	760-602-8700

MATERIAL IDENTIFICATION

NAME: **Chlorine**
CAS#: [7782-50-5]
CAT#: 099142
For R&D use only.

HAZARDS IDENTIFICATION**GHS Classification**

Oxidising gases (Category 1)
Gases under pressure (Compressed gas)
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2A)
Acute toxicity, inhalation (Category 3)
Respiratory tract irritation (Category 3)
Hazardous to the aquatic environment, acute hazard (Category 1)

GHS Label elements, including precautionary statements**Pictograms****Signal Word****Danger****Hazard Statement(s)**

H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life

Precautionary Statement(s)

P220	Keep/Store away from clothing/.../combustible materials.
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P244	Keep reduction valves free from grease and oil.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P311	Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage. Hazardous to the aquatic environment
P302 + P352	IF ON SKIN: wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim 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.
P332 + P313	IF SKIN irritation occurs: Get medical advice/attention.
P337 + P313	IF eye irritation persists: Get medical advice/attention.
P370 + P376	In case of fire: Stop leak if safe to Do so.
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.
P501	Dispose of contents/container to.....

COMPOSITION/INFORMATION ON INGREDIENTS

Formula : Cl₂
Molecular Weight : 70.91

CAS	Description	Concentration
7782-50-5	Chlorine	

FIRST AID MEASURES

In case of eye contact

Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

In case of skin contact

Wash thoroughly with soap and plenty of water. Seek medical attention.

If inhaled

Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

If swallowed

Do not induce vomiting. Give water to victim to drink. Seek medical attention.

FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards/decomposition of product

emits toxic fumes under fire conditions.

ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.

Environmental precautions

Prevent further leakage if safe to do so.

Methods and materials for containment and clean up

Absorb spills on sand or vermiculite and place in closed container for disposal.

HANDLING AND STORAGE**Precautions for safe handling**

Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

Precautions for safe storage

Keep container tightly closed. Store in a cool, dry, well-ventilated area.

EXPOSURE CONTROL/PERSONAL PROTECTION**Exposure Limits:**

		TWA	
Component Name (CAS)	Reference	ppm	mg/m3
Chlorine (7782-50-5)	OSHA	—	—

Personal protective equipment**Eye/face protection**

Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hand/skin protection

Avoid all direct contact with product.
Wear chemical-resistant gloves.
Wear protective clothing and boots.
After contact with skin, wash immediately.

Respiratory protection

Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	gas
Odour	no data available
Odour Threshold	no data available
Melting point/Freezing Point	no data available
Boiling Point	-34°C
Flash Point	no data available
Evaporation Rate	no data available
Flammability (solid, gas)	no data available
Upper/Lower Flammability or Explosive limits	no data available
Vapour pressure	no data available
Relative Density	1.563
Solubility(ies)	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Refractive Index	no data available

STABILITY AND REACTIVITY**Chemical stability**

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

no data available

Incompatible materials

And alcohols.

Hazardous decomposition products

May evolve carbon monoxide, carbon dioxide, and hydrogen chloride.

TOXICOLOGICAL INFORMATION**Acute toxicity****Inhalation LC50**

Rat- 1h - 293pppm

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

May cause respiratory irritation

STOT-repeated exposure

no data available

Aspiration hazard

no data available

Exposure Routes

To the best of our knowledge, the health hazards of this material have not been fully investigated.

ECOLOGICAL INFORMATION**Toxicity**

Toxicity to fish:

LC50 - Oncorhynchus mykiss (rainbow trout) - 0.014 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 - Daphnia magna (Water flea) - 0.019 mg/l - 24 h

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

DISPOSAL CONSIDERATIONS

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

TRANSPORT INFORMATION

DOT

Chlorine
2.3, 5.1,8
UN1017
Inhalation Zone B
Reportable Quantity (RQ): 10 lbs

IMDG

Chlorine
2.3, 5.1,8
UN1017
Inhalation Zone B
EMS-No: F-C, S-U
Marine Pollutant: Yes

IATA

Chlorine
2.3, 5.1,8
UN1017
Inhalation Zone B
IATA Passenger: Forbidden for transport
IATA Cargo: Forbidden for transport

REGULATORY INFORMATION

SARA 302 Components

SARA 302: The following chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302:

	CAS
Chlorine	7782-50-5

SARA 313 Components

SARA 313: The following chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313:

	CAS
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New Jersey Right to Know Components

This product contains a chemical on the New Jersey Right to Know Components List.

	CAS
Chlorine	7782-50-5

California Prop. 65 Components

This product may contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

OTHER INFORMATION

Version : 1.2

Revision Date : 11/9/2015

The above information is believed to be correct but does not purport to be all-inclusive and shall be used

only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.