



CL Treat

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 02/05/2020 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : CL Treat

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Refined Technologies, Inc.
888-634-3183
P.O. Box 132196
The Woodlands, Texas 77393
T 888-634-3183
CSservice@r-t-i.com

1.4. Emergency telephone number

Emergency number : (800) 633-8253

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Ox. Liq. 3 H272
Eye Irrit. 2 H319

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Warning

Hazard statements (GHS US)

: H272 - May intensify fire; oxidizer.
H319 - Causes serious eye irritation.

Precautionary statements (GHS US)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 - Keep/Store away from combustible materials.
P264 - Wash hands and forearms thoroughly after handling.
P280 - Wear eye protection, protective gloves
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P317 - If eye irritation persists: Get medical help.
P370+P378 - In case of fire: Use dry sand, water, foam, dry chemical to extinguish.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Sodium nitrate	(CAS-No.) 7631-99-4	15 - 40

CL Treat

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.
- First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
- First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.
- First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : Causes serious eye irritation. May intensify fire; oxidizer.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : May cause skin irritation.
- Symptoms/effects after eye contact : Causes serious eye irritation.
- Symptoms/effects after ingestion : May cause gastrointestinal irritation.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Water spray. Sand. Carbon dioxide (CO2).
- Unsuitable extinguishing media : None

5.2. Specific hazards arising from the chemical

- Fire hazard : Not flammable.
- Explosion hazard : No data available.
- Reactivity : May intensify fire; oxidizer.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Eliminate all ignition sources if safe to do so.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Guard against spontaneous combustion of improperly discarded oily rags.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Keep unnecessary personnel away. Eliminate ignition sources. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

6.1.1. For non-emergency personnel

- Protective equipment : Wear Protective equipment as described in Section 8.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Use self-contained breathing apparatus.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

- For containment : Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Stop leak without risks if possible. Store in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13). Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Dike the spilled material, where this is possible. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean, preferably with a detergent. Do not use solvents. Do not allow into drains or water courses.

CL Treat

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Avoid dust formation. Wear appropriate protective equipment when handling this material.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- Hygiene measures : Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Store apart from combustible and other readily oxidizable materials, food, beverage, and excessive heat.
- Incompatible products : Heat sources.
- Incompatible materials : Strong oxidizing agents. Strong reducing agents. combustible materials, metals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- Exposure Data No established exposure limits for this product.
- Carcinogen Data No established chemicals at levels which require reporting for this product.

8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses. Gloves. Protective clothing.

Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier. Change contaminated gloves immediately.

Eye protection:

Chemical goggles and face shield must be worn in combination when directly handling.

Skin and body protection:

Wear long sleeves and chemical apron to minimize bodily exposure when directly handling.

Respiratory protection:

Not required in presence of good general ventilation. If conditions warrant, use NIOSH approved respirator.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : Clear
- Odour : No Odour
- Odour threshold : No data available
- pH : 9.1 – 9.2
- Melting point : No data available
- Freezing point : $\approx 32^{\circ}\text{F}$ ($\sim 0^{\circ}\text{C}$)
- Boiling point : $\approx 212^{\circ}\text{F}$ ($\sim 100^{\circ}\text{C}$)
- Flash point : $\geq 400^{\circ}\text{F}$
- Relative evaporation rate (butylacetate=1) : No data available
- Flammability (solid, gas) : Not applicable
- Vapour pressure : No data available
- Relative vapour density at 20°C : No data available
- Relative density (@ 20°C) : ≈ 9.86 lbs/gal
- Solubility : Soluble in water
- Log Pow : No data available

CL Treat

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions. May intensify fire; oxidizer.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use. Hazardous polymerization does not occur.

10.4. Conditions to avoid

Combustible materials. Incompatible materials. Excess heat.

10.5. Incompatible materials

Acids. Strong oxidizing agents. Combustible materials. Metals.

10.6. Hazardous decomposition products

Sodium oxides. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Sodium nitrate (7631-99-4)

LD50 oral rat	1267 mg/kg
---------------	------------

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: Causes serious eye irritation. May intensify fire; oxidizer.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No data available.

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available.

CL Treat

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.4. Mobility in soil

Ecology - soil

No data available.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

: Do not allow the product to be released into the environment. Dispose in a safe manner in accordance with local/national regulations.

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description

: UN3218 Nitrates, inorganic, aqueous solution, n.o.s. (Contains: Sodium Nitrate), 5.1, II

UN-No.(DOT)

: UN3218

Proper Shipping Name (DOT)

: Nitrates, inorganic, aqueous solution, n.o.s.
(Contains: Sodium Nitrate)

Class (DOT)

: 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128

Packing group (DOT)

: II - Medium Danger

Hazard labels (DOT)

: 5.1 - Oxidizer

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)

: 1 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

: 5 L

DOT Vessel Stowage Location

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

DOT Vessel Stowage Other

: 56 - Stow "separated from" ammonium compounds, 58 - Stow "separated from" cyanides, 133 - Stow "separated from" sulfur.

Emergency Response Guide (ERG) Number

: 140

Other information

: No supplementary information available.



Transportation of Dangerous Goods

Transport document description

: UN3218 Nitrates, inorganic, aqueous solution, n.o.s. (Contains: Sodium Nitrate), 5.1, II

UN-No. (TDG)

: UN3218

Proper Shipping Name (Transportation of Dangerous Goods)

: Nitrates, inorganic, aqueous solution, n.o.s. (Contains: Sodium Nitrate)

TDG Primary Hazard Classes

: 5.1 - Class 5.1 - Oxidizer

Packing group

: II - Medium Danger

TDG Special Provisions

: 55 - Aqueous solutions of inorganic nitrate substances do not meet the criteria for inclusion in Class 5.1 if the concentration of the inorganic nitrate substances in the aqueous solution at the minimum temperature that may be encountered in transport is not more than 80 per cent of the saturation limit of the inorganic nitrate substance in solution.

Explosive Limit and Limited Quantity Index

: 1 L

Passenger Carrying Road Vehicle or Passenger

: 1 L

Carrying Railway Vehicle Index

Transport by sea (IMDG)

Transport document description (IMDG)

: UN3218 Nitrates, inorganic, aqueous solution, n.o.s. (Contains: Sodium Nitrate), 5.1, II

UN-No. (IMDG)

: UN3218

Proper Shipping Name (IMDG)

: Nitrates, inorganic, aqueous solution, n.o.s. (Contains: Sodium Nitrate)

Class (IMDG)

: 5.1 - Class 5.1 - Oxidizer

Packing group (IMDG)

: II - substances presenting medium danger

CL Treat

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

CL Treat

All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule"). as of Feb. 2019 or are otherwise exempt.

15.2. International regulations

No additional information available

15.3. US State regulations

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

Component	State or local regulations
Sodium nitrate (7631-99-4)	U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
NFPA specific hazard	: OX - Materials that posses oxidizing properties.
HMIS Hazard Rating	
Health	: 1
Flammability	: 0
Physical	: 0



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.