SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Substance
Product Name: Sulfur Dioxide
Chemical Name: SO₂
CAS-No.: 7446-09-5
Synonyms: Sulfurous anhydride, Sulfurous acid anhydride; Sulfurous Oxide

Intended Use of the Product
Used as a bleaching agent, refrigerant, solvent and in processing food products.

Name, Address, and Telephone of the Responsible Party
Manufacturer
CHEMTRADE LOGISTICS INC.
155 Gordon Baker Road
Suite 300
Toronto, Ontario M2H 3N5
For SDS Info: (416) 496-5856
www.chemtradelogistics.com

Emergency Telephone Number
Emergency Number:
Canada: CANUTEC +1-613-996-6666 / US: CHEMTREC +1-800-424-9300
INTERNATIONAL: +1-703-741-5970
Chemtrade Emergency Contact: (866) 416-4404
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture
GHS Classification
Press. Gas (Liq.) H280
Acute Tox. 3 H331
(Inhalation:gas)
Skin Corr. 1B H314
Eye Dam. 1 H318

Full text of hazard classes and H-statements: see section 16

Label Elements
GHS Labeling
Hazard Pictograms

Signal Word: Danger
Hazard Statements:
H280 - Contains gas under pressure; may explode if heated.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H331 - Toxic if inhaled.

Precautionary Statements:
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P330+P311 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Sulfur Dioxide
Safety Data Sheet

Full text of H-phrases: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

**Description of First-aid Measures**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If frostbite or freezing occurs, immediately flush with plenty of lukewarm water to GENTLY warm the affected area. Do not use hot water. Do not rub affected area. Get immediate medical attention.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

**Skin Contact:** Remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. If frostbite or freezing occurs, immediately flush with plenty of lukewarm water to GENTLY warm the affected area. Do not use hot water. Do not rub affected area. Get immediate medical attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

**Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Toxic if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. May cause frostbite on contact with the liquid.

**Inhalation:** Inhalation of this material can cause serious health effects in small amounts, leading to unconsciousness and death.

P304+P340 - IF INHALED: Remove person to fresh air and keep 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.

P310 - Immediately call a POISON CENTER or doctor.

P311 - Call a POISON CENTER or doctor.

P321 - Specific treatment (see section 4 on this SDS).

P363 - Wash contaminated clothing before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P410+P403 - Protect from sunlight. Store in a well-ventilated place.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards
Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Prolonged exposure to gas or overexposure to concentrated gas may cause loss of consciousness, possible damage to lung tissue, a decrease of lung function, vocal cord spasms, chemical pneumonia, inflammation of the throat (bronchitis), and breathing paralysis. Contact with gas escaping the container can cause frostbite.

**Unknown acute toxicity**
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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<th>Product Identifier</th>
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<th>GHS Ingredient Classification</th>
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<td>(CAS-No.) 7446-09-5</td>
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<td>Press. Gas (Liq.), H280 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318</td>
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</table>

Full text of H-phrases: see section 16
Skin Contact: Causes severe irritation which will progress to chemical burns. Contact with gas/liquid escaping the container can cause frostbite and freeze burns.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva. Contact with gas/liquid escaping the container can cause frostbite, freeze burns, and permanent eye damage.

Ingestion: Not considered a potential route of exposure, but contact with gas/liquid escaping the container can cause freeze burns and frostbite. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Prolonged exposure to gas or overexposure to concentrated gas may cause loss of consciousness, possible damage to lung tissue, a decrease of lung function, vocal cord spasms, chemical pneumonia, inflammation of the throat (bronchitis), and breathing paralysis.

Indication of Any Immediate Medical Attention and Special Treatment Needed
If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Container may explode in heat of fire.

Reactivity: Contact with water/moisture may produce toxic and corrosive fumes. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Not available

Reference to Other Sections
Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe gas.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).


For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Evacuate unnecessary personnel, isolate, and ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Materials for Containment and Cleaning Up

For Containment: As an immediate precautionary measure, isolate spill or leak area in all directions. Stop leak, if possible without risk. Ventilate area.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Stop the source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Contact competent authorities after a spill.

Reference to Other Sections
See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.
SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling
Do not breathe gas. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard.

Additional Hazards When Processed: Do not pressurize, cut, or weld containers. Ruptured cylinders may rocket. May release corrosive vapors. Dissolves in water to form sulfurous acid, a corrosive liquid.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from extremely high or low temperatures and incompatible materials, water, moisture, humidity. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials: Strong acids, strong bases, strong oxidizers, water, humidity, chlorates, acrolein, active metals such as: aluminum, iron, iron oxide.

Specific End Use(s)
Used as a bleaching agent, refrigerant, solvent and in processing food products.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

| Substance                          | Mexico OEL TWA (mg/m³) | Mexico OEL TWA (ppm) | Mexico OEL STEL (mg/m³) | Mexico OEL STEL (ppm) | USA ACGIH ACGIH STEL (ppm) | USA ACGIH ACGIH chemical category | USA OSHA OSHA PEL (TWA) (mg/m³) | USA OSHA OSHA PEL (TWA) (ppm) | USA NIOSH NIOSH REL (TWA) (mg/m³) | USA NIOSH NIOSH REL (TWA) (ppm) | USA NIOSH NIOSH REL (STEL) (mg/m³) | USA NIOSH NIOSH REL (STEL) (ppm) | USA IDLH US IDLH (ppm) | Alberta OEL STEL (mg/m³) | Alberta OEL STEL (ppm) | Alberta OEL TWA (mg/m³) | Alberta OEL TWA (ppm) | British Columbia OEL STEL (ppm) | British Columbia OEL TWA (ppm) | Manitoba OEL STEL (ppm) | New Brunswick OEL STEL (mg/m³) | New Brunswick OEL STEL (ppm) | New Brunswick OEL TWA (mg/m³) | New Brunswick OEL TWA (ppm) | Newfoundland & Labrador OEL STEL (ppm) | Nova Scotia OEL STEL (ppm) | Nunavut OEL STEL (ppm) | Nunavut OEL TWA (ppm) | Northwest Territories OEL STEL (ppm) | 5 mg/m³ | 2 ppm | 10 mg/m³ | 5 ppm | 0.25 ppm | Not Classifiable as a Human Carcinogen | 13 mg/m³ | 5 ppm | 5 mg/m³ | 2 ppm | 0.25 ppm | 13 mg/m³ | 5 ppm | 100 ppm | 13 mg/m³ | 5 ppm | 5.2 mg/m³ | 5 ppm | 2 ppm | 0.25 ppm | 0.25 ppm | 5 ppm | 2 ppm | 5 ppm | 5 ppm |
Sulfur Dioxide
Safety Data Sheet

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Exposure Controls

**Appropriate Engineering Controls**: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Use explosion-proof equipment. Gas detectors should be used when toxic gases may be released.


**Materials for Protective Clothing**: Chemically resistant materials and fabrics. Acid-resistant clothing.

**Hand Protection**: Wear protective gloves. If material is cold, wear thermally resistant protective gloves.

**Eye Protection**: Chemical safety goggles and face shield.

**Skin and Body Protection**: Wear suitable protective clothing.

**Respiratory Protection**: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Thermal Hazard Protection**: Wear thermally resistant protective clothing.

**Other Information**: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on Basic Physical and Chemical Properties**

- **Physical State**: Gas
- **Appearance**: Colorless gas
- **Odor**: Pungent, strong
- **Odor Threshold**: Not available
- **pH**: Not applicable. In water, sulfur dioxide is rapidly converted to sulfurous acid (pH less than 3)
- **Evaporation Rate**: 243.2
- **Melting Point**: Not applicable
- **Freezing Point**: -75.55 °C (-103.99 °F)
- **Boiling Point**: -9.99 °C (14.02 °F)
- **Flash Point**: Not applicable
- **Critical Temperature**: 156.9 °C (314.42 °F)
- **Auto-ignition Temperature**: Not available
- **Decomposition Temperature**: Not available
Flammability (solid, gas): Not available
Lower Flammable Limit: Not available
Upper Flammable Limit: Not available
Vapor Pressure: Not available
Relative Vapor Density at 20°C: Not available
Relative Density: Not available
Specific Gravity: 1.437 @ 0°C (32°F)
Solubility: Water: 11.9% by wt. in water at 15°C (60°F) and 760 mmHg. Organic solvent: Soluble in alcohol, chloroform, ether, acetic acid.
Partition Coefficient: N-Octanol/Water: Not available
Viscosity: Not available
Explosive Properties: Contains gas under pressure; may explode if heated

SECTION 10: STABILITY AND REACTIVITY
Reactivity: Contact with water/moisture may produce toxic and corrosive fumes. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.
Chemical Stability: Contains gas under pressure; may explode if heated.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Extremely high or low temperatures and incompatible materials. Ignition sources. Incompatible materials. Water, humidity.
Incompatible Materials: Strong acids, strong bases, strong oxidizers, water, humidity, chlorates, acrolein, active metals such as: aluminum, iron, iron oxide.

SECTION 11: TOXICOLOGICAL INFORMATION
Information on Toxicological Effects - Product
Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Inhalation: gas: Toxic if inhaled.
LD50 and LC50 Data:
Sulfur Dioxide (7446-09-5)
ATE (Gases) 1,250.00 ppmV/4h
Skin Corrosion/Irritation: Causes severe skin burns and eye damage.
pH: Not applicable. In water, sulfur dioxide is rapidly converted to sulfurous acid (pH less than 3)
Eye Damage/Irritation: Causes serious eye damage.
pH: Not applicable. In water, sulfur dioxide is rapidly converted to sulfurous acid (pH less than 3)
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Effects After Inhalation: Inhalation of this material can cause serious health effects in small amounts, leading to unconsciousness and death.
Symptoms/Effects After Skin Contact: Contact with gas/liquid escaping the container can cause frostbite and freeze burns. Causes severe irritation which will progress to chemical burns.
Symptoms/Effects After Eye Contact: Contact with gas/liquid escaping the container can cause frostbite, freeze burns, and permanent eye damage. Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Effects After Ingestion: Not considered a potential route of exposure, but contact with gas/liquid escaping the container can cause freeze burns and frostbite. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
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**Chronic Symptoms:** Prolonged exposure to gas or overexposure to concentrated gas may cause loss of consciousness, possible damage to lung tissue, a decrease of lung function, vocal chord spasms, chemical pneumonia, inflammation of the throat (bronchitis), and breathing paralysis.

**Information on Toxicological Effects - Ingredient(s)**

**LD50 and LC50 Data:**

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<td>IARC Group</td>
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**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity**

Ecology - General: Not classified.

**Persistence and Degradability**

Sulfur Dioxide (7446-09-5)  
Persistence and Degradability: Not established.

**Bioaccumulative Potential**

Sulfur Dioxide (7446-09-5)  
Bioaccumulative Potential: Not established.

Sulfur dioxide (7446-09-5)  
BCF Fish 1: (no bioaccumulation expected)

**Mobility in Soil**  
Not available

**Other Adverse Effects**

Other Information: Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions. Empty gas cylinders should be returned to the vendor for recycling or refilling. Do not puncture or incinerate container.

Ecology - Waste Materials: Avoid release to the environment.

**SECTION 14: TRANSPORT INFORMATION**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

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Sulfur Dioxide
Safety Data Sheet


SECTION 15: REGULATORY INFORMATION

US Federal Regulations

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SARA 311/312

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State Right-To-Know Lists

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<th>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances</th>
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Canadian Regulations

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International Inventories/Lists

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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 05/23/2017

Revision Summary

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Sulfur Dioxide
Safety Data Sheet

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Products Regulations (HPR).

GHS Full Text Phrases:

| Acute Tox. 3 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 3 |
| Press. Gas (Liq.) | Gases under pressure Liquefied gas |
| Skin Corr. 1B | Skin corrosion/irritation Category 1B |
| H280 | Contains gas under pressure; may explode if heated |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H331 | Toxic if inhaled |

NFPA 704

NFPA Health Hazard: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA Fire Hazard: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA Reactivity Hazard: 0 - Material that in themselves are normally stable, even under fire conditions.

HMIS Rating

Health: 3 - Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability: 0 - Minimal Hazard

Physical: 0 - Minimal Hazard

PPE: See Section 8

Abbreviations and Acronyms

| AICS – Australian Inventory of Chemical Substances | ACS – American Congress of Governmental Industrial Hygienists |
| AIHA – American Industrial Hygiene Association | AIC – American Conference of Governmental Industrial Hygienists |
| ATE - Acute Toxicity Estimate | BCF  - Bioconcentration factor |
| BEI - Biological Exposure Indices (BEI) | NFPA 704 – National Fire Protection Association - Standard System for the |
| CAS No. - Chemical Abstracts Service number | NIOSH - National Institute for Occupational Safety and Health |
| CERCLA RQ - Comprehensive Environmental Response, Compensation, and | NFPA 704 – National Fire Protection Association - Standard System for the |
| Liability Act - Reportable Quantity | Identification of the Hazards of Materials for Emergency Response |
| CICR – Turkish Inventory and Control of Chemicals | NOEC - No-Observed Effect Concentration |
| Regulations Title 49 – Transportation. | OEL - Occupational Exposure Limits |
| ECL - Korea Existing Chemicals List | OSHA – Occupational Safety and Health Administration |
| EINECS - European Inventory of Existing Commercial Chemical Substances | PEL - Permissible Exposure Limits |
| ELINCS - European List of Notified Chemical Substances | PCCS - Philippines Inventory of Chemicals and Chemical Substances |
| EmS - IMDG Emergency Schedule Fire & Spillage | PDSCL - Japan Poisonous and Deleterious Substances Control Law |
| ENCS - Japanese Existing and New Chemical Substances Inventory | PPE – Personal Protective Equipment |
| EPA – Environmental Protection Agency | PRTR - Japan Pollutant Release and Transfer Register |
| EPCRA 304 RG – EPCRA 304 Extremely Hazardous Substance Emergency | REL - Recommended Exposure Limit |
| Planning and Community Right-to-Know Act – Reportable Quantity | SADT - Self Accelerating Decomposition Temperature |
| ERAP Index – Emergency Response Assistance Plan Quantity Limit | SARA - Superfund Amendments and Reauthorization Act |
| ErC50 - ECS5 in Terms of Reduction Growth Rate | SARA 302 - Section 302, 40 CFR Part 355 |
| ERG code (IATA) - Emergency Response Drill Code as found in the International | SARA 311/312 - Sections 311 and 312, 40 CFR Part 370 Hazard Categories |
| Civil Aviation Organization (ICAO) | SARA 313 - Section 313, 40 CFR Part 372 |
| ERG No. - Emergency Response Guide Number | SRCL - Specifically Regulated Carcinogen List |
| HCCL - Hazard Communication Carcinogen List | STEL - Short Term Exposure Limit |
| HMIS – Hazardous Materials Information System | SVHC – European Candidate List of Substance of Very High Concern |
| IARC - International Agency for Research on Cancer | TDG – Transport Canada Transport of Dangerous Goods Regulations |
| IATA - International Air Transport Association – Dangerous Goods Regulations | TLM - Median Tolerance Limit |
| IDLH - Immediately Dangerous to Life or Health | TLV - Threshold Limit Value |

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