

Safety Data Sheet (HazCom 2012) CS-1900 PART B - CS1900B

Safety Data Sheet date: 3/21/2025, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: CS-1900 PART B

Other means of identification:

SDS code: CS1900B

Recommended use of the chemical and restrictions on use

Recommended use:

Industrial uses

CATALYST

Restrictions on use:

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Manufacturers:

Flamemaster Corp., 13576 Desmond Street, Pacoima, CA 91331 - USA CAGE Code: 14439

Distributors:

Flamemaster Corp., Tel 818-890-1401, Fax 818-890-6001, www.flamemaster.com

Competent person responsible for the safety data sheet:

Flamemaster Corp., Tel 818-890-1401, Fax 818-890-6001, www.flamemaster.com

Emergency phone number:

CHEMTEL: +1-813-248-0585 (International); 1-800-255-3924 (USA)

2. HAZARD(S) IDENTIFICATION

Classification of the chemical



Danger, Flam. Liq. 2, Highly flammable liquid and vapour.



Danger, Acute Tox. 3, Toxic if inhaled.



Warning, Skin Irrit. 2, Causes skin irritation.



Danger, Eye Dam. 1, Causes serious eye damage.



Warning, Skin Sens. 1B, May cause an allergic skin reaction.



Warning, STOT SE 3, May cause respiratory irritation.



Warning, STOT SE 3, May cause drowsiness or dizziness.

Aquatic Acute 2, Toxic to aquatic life.

Label elements

Hazard pictograms:



Danger

Hazard statements:

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H225 Highly flammable liquid and vapour.
H331 Toxic if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H401 Toxic to aquatic life.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
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.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/clothing and eye/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/...
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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/doctor/...
P311 Call a POISON CENTER/doctor/...
P312 Call a POISON CENTER/doctor/... if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use Alcohol foam, carbon dioxide (CO₂), dry chemical, water spray/water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 60% - < 70% propan-2-ol; isopropyl alcohol; isopropanol
Index number: 603-117-00-0, CAS: 67-63-0, EC: 200-661-7

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 B.6/2 Flam. Liq. 2 H225

 A.3/2A Eye Irrit. 2A H319

 A.8/3 STOT SE 3 H336

>= 30% - < 40% N-(2-AMINOETHYL)-3-AMINOPROPYLTRIMETHOXSILANE
CAS: 1760-24-3

 A.1/3/Inhal Acute Tox. 3 H331

 A.2/2 Skin Irrit. 2 H315

 A.8/3 STOT SE 3 H335

US-HAE/A2 Aquatic Acute 2 H401

 A.3/1 Eye Dam. 1 H318

 A.4.2/1B Skin Sens. 1B H317

>= 1% - < 3% N,N'-BIS[3-(TRIMETHOXSILYL)PROPYL]ETHYLENEDIAMINE
CAS: 68845-16-9

 A.2/2 Skin Irrit. 2 H315

 A.3/1 Eye Dam. 1 H318

 A.4.2/1B Skin Sens. 1B H317

 A.8/3 STOT SE 3 H335

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.
OBTAIN IMMEDIATE MEDICAL ATTENTION.
Remove contaminated clothing immediately and dispose of safely.
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show the packing or label.

Most important symptoms/effects, acute and delayed

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None

Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

No particular treatment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

In case of fire: Use Alcohol foam, carbon dioxide (CO₂), dry chemical, water spray/water fog to extinguish.

Unsuitable extinguishing media

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties:

lower limit: 2 upper limit: 12.0

Oxidizing properties:

N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, ensure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Keep away from food, drink and feed.

Incompatible materials:

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None in particular.
 Instructions as regards storage premises:
 Cool and adequately ventilated.
 Safety electric system.
 Storage temperature:
 Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

- OEL Type: National - STEL: 980 mg/m³, 400 ppm - Notes: France
- OEL Type: National - TWA: 500 mg/m³, 200 ppm - Notes: DFG, Y - Germany
- OEL Type: National - TWA: 999 mg/m³, 400 ppm - STEL: 1250 mg/m³, 500 ppm - Notes: United Kingdom
- OEL Type: ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair
- OEL Type: National - TWA: 999 mg/m³, 400 ppm - STEL: 1250 mg/m³, 500 ppm
- OEL Type: OSHA PEL - TWA: 980 mg/m³, 400 ppm
- OEL Type: NIOSH REL - TWA: 980 mg/m³, 400 ppm - STEL: 1225 mg/m³, 500 ppm
- OEL Type: National - TWA: 500 mg/m³, 200 ppm - STEL(30min (Miw)): 1960 mg/m³, 800 ppm - Notes: Österreich

DNEL Exposure Limit Values

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

- Worker Industry: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
- Worker Industry: 500 mg/kg - Consumer: 89 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

- Target: Fresh Water - Value: 140.9 mg/l
- Target: Marine water - Value: 140.9 mg/l
- Target: Freshwater sediments - Value: 552 mg/kg
- Target: Marine water sediments - Value: 552 mg/kg
- Target: Soil (agricultural) - Value: 28 mg/kg
- Target: Microorganisms in sewage treatments - Value: 2251 mg/l
- Target: Water (intermittent discharge) - Value: 140.9 mg/l
- Target: Oral (secondary poisoning) (foodstuff) - Value: 160 mg/kg

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.
 Use adequate protective respiratory equipment.

Thermal Hazards:

None

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9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:		--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	8.5	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	180°F	--	--
Flash Point (°F):	54	--	--
Flash point (°C):	12.2°C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	30 mmHg(@ 20°C)	--	--
Vapour density:	N.A.	--	--
Relative density:	1.01	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	lower limit: 2 upper limit: 12.0	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

10. STABILITY AND REACTIVITY

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

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None
 Conditions to avoid
 Avoid accumulating electrostatic charge.
 Incompatible materials
 Avoid contact with combustible materials. The product could catch fire.
 Hazardous decomposition products
 None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

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Acute toxicity

The product is classified: Acute Tox. 3 H331

ATEmix - Inhalation (Vapours) 7.73196 mg/l

Skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

Serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

Respiratory or skin sensitisation

The product is classified: Skin Sens. 1B H317

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

STOT-single exposure

The product is classified: STOT SE 3 H335; STOT SE 3 H336

STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

Aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4570 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 20 mg/l - Duration: 8h

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 25000 mg/m3 - Duration: 6 hours

Test: LD50 - Route: Skin - Species: Rabbit = 12.800 mg/kg

Reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat = 500 mg/kg

STOT-repeated exposure:

Test: NOAEL - Route: Inhalation - Species: Rat = 1.3 mg/l

Test: NOAEL - Route: Inhalation Vapour - Species: Rat (Male, female) = 12.5 mg/l

N-(2-AMINOETHYL)-3-AMINOPROPYLTRIMETHOXY-SILANE - CAS: 1760-24-3

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 2413 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2009 mg/kg

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Test: LD50 - Route: Skin - Species: Rabbit 16 ml/kg
 Test: LC50 - Route: Inhalation - Species: Rat 1.965 mg/l
 Test: ATE - Route: Oral 2413 mg/kg - Notes: body weight
 Test: ATE - Route: Inhalation Vapour 1490 mg/l - Duration: 4h
 Test: ATE - Route: Inhalation (dust, mist) 1490 mg/l - Duration: 4h

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

propan-2-ol; isopropyl alcohol; isopropanol - Group 3.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

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The product is classified: Aquatic Acute 2 - H401

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 48 - Notes: Leuciscus melanotus

Endpoint: LC50 - Species: Fish = 9640 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: LC50 - Species: Daphnia > 10.000 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: Scenedesmus subspicatus

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: NOAEC - Species: Algae = 1800 mg/l - Duration h: 84 - Notes: Algues vertes / Green algae

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 100 mg/l - Duration h: 72 - Notes:

Pseudokirchneriella subcapitata

c) Bacteria toxicity:

Species: bacteria = 1.050 mg/l

Persistence and degradability

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Biodegradability: Readily biodegradable - Duration: 5 days - %: 53 - Notes: Aerobie, activated sludge

Biodegradability: Oxidizes rapidly by photochemical reactions in air.

Biodegradability: Photodegradation (in air) - overall half-life time - Test: Degradation half-life in fresh or estuarine water - Duration: 33 hours

Bioaccumulative potential

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Estimated not significantly bioaccumulative.

Log Pow <=4

Log Kow 0.05 - Notes: 25°C

Mobility in soil

N.A.

Other adverse effects

No harmful effects expected.

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

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Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION



UN number

ADR-UN Number: 1133
 DOT number: UN1133
 IATA-UN Number: 1133
 IMDG-UN Number: 1133

UN proper shipping name

ADR-Shipping Name: ADHESIVES
 DOT-Shipping Name: Adhesives, containing a flammable liquid
 IATA-Shipping Name: ADHESIVES
 IMDG-Shipping Name: ADHESIVES

Transport hazard class(es)

ADR-Class: 3
 DOT Hazard Class: 3
 ADR - Hazard identification number: 33
 IATA-Class: 3
 IATA-Label: 3
 IMDG-Class: 3

Packing group

ADR-Packing Group: II
 DOT Packing group: II
 IATA-Packing group: II
 IMDG-Packing group: II

Environmental hazards

ADR-Environmental Pollutant: No
 IMDG-Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)
 N.A.

Special precautions

DOT Special provisions: 149, 383, B52, IB2, T4, TP1, TP8
 ADR-Subsidiary hazards: -
 ADR-S.P.: 640D
 ADR-Transport category (Tunnel restriction code): 2 (D/E)
 IATA-Passenger Aircraft: 353
 IATA-Subsidiary hazards: -
 IATA-Cargo Aircraft: 364
 IATA-S.P.: A3
 IATA-ERG: 3L
 IMDG-EmS: F-E , S-D
 IMDG-Subsidiary hazards: -
 IMDG-Stowage and handling: Category B
 IMDG-Segregation: -

15. REGULATORY INFORMATION

USA - Federal regulations

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TSCA - Toxic Substances Control Act

TSCA inventory: All the components of this product are listed as active on or are exempt from the TSCA Inventory..

TSCA sections for substances listed in section 3:

propan-2-ol; isopropyl alcohol; isopropanol is listed in TSCA Section 8d HSDR, Section 8b

N-(2-AMINOETHYL)-3-AMINOPROPYLTRIMETHOXYSILANE is listed in TSCA Section 8b

N,N'-BIS[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 Extremely Hazardous Substances: no substances listed.

Section 304 Hazardous substances: no substances listed.

Section 313 Toxic chemical list: propan-2-ol; isopropyl alcohol; isopropanol.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

No substances listed.

CAA - Clean Air Act

CAA listed substances:

propan-2-ol; isopropyl alcohol; isopropanol is listed in CAA Section 111.

CWA - Clean Water Act

CWA listed substances:

propan-2-ol; isopropyl alcohol; isopropanol is listed in CWA Section 304.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

propan-2-ol; isopropyl alcohol; isopropanol.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

propan-2-ol; isopropyl alcohol; isopropanol.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

propan-2-ol; isopropyl alcohol; isopropanol.

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H331 Toxic if inhaled.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

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H401 Toxic to aquatic life.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.

According to TSCA section 3(2)(B)(i) : a hydrated form of a chemical substance is considered a mixture of the corresponding anhydrous form and water.

Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ATE: Acute Toxicity Estimate
 ATEmix: Acute toxicity Estimate (Mixtures)
 CAS: Chemical Abstracts Service (division of the American Chemical Society).
 CLP: Classification, Labeling, Packaging.
 DNEL: Derived No Effect Level.
 EINECS: European Inventory of Existing Commercial Chemical Substances.
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
 HMIS: Hazardous Materials Identification System
 IARC: International Agency for Research on Cancer
 IATA: International Air Transport Association.
 IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
 ICAO: International Civil Aviation Organization.
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
 IMDG: International Maritime Code for Dangerous Goods.
 INCI: International Nomenclature of Cosmetic Ingredients.
 KSt: Explosion coefficient.
 LC50: Lethal concentration, for 50 percent of test population.
 LD50: Lethal dose, for 50 percent of test population.
 NFPA: National Fire Protection Association
 NIOSH: National Institute for Occupational Safety and Health
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PNEC: Predicted No Effect Concentration.
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
 TOTAL
 VOC'S
 (TVOC) /
 NONEXEMPT
 VOC'S
 (CVOC):
 Using
 California
 South Coast
 Air Quality

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Management

District

(SCAQMD)

Rule 1143.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWA: Time-weighted average

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