



Silver Fern Chemical, Inc.
Safety Data Sheet
2,4-TDI 80%/2,6-TDI 20%

Revision Date: 09/22/2025

Section 1. Identification

Product Identity 2,4-TDI 80%/2,6-TDI 20%
Other means of identification Toluene diisocyanate

Relevant identified uses of the substance or mixture and uses.

Soft foam is being used in footwear, furniture, automotive, bedding, toys and semi-rigid foams used in car interiors, etc.

Details of the supplier of the safety data sheet

Company Name Silver Fern Chemical, Inc.
121 W. De La Guerra Street, Suite B
Santa Barbara, CA 93101 USA
Customer Service: 1-866-282-3384 /
info@silverfernchemical.com
Website - www.silverfernchemical.com

24 hour Emergency Telephone No. **Emergency telephone number**
Infotrac: 1-800-535-5053
Outside USA & Canada +1-352-323-3500

Section 2. Hazard(s) identification

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Acute toxicity(inhalation), category 2:H330 Fatal if inhaled.
Skin corrosion/irritation category 2;H315 Causes skin irritation.
Serious eye damage / eye irritation, category 2A;H319 Causes serious eye irritation.
Skin sensitizer category 1;H317 May cause an allergic skin reaction.



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Respiratory sensitization, category 1;H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carcinogen, category 2;H351 Suspected of causing cancer.
Specific target organ toxicity, Single exposure category 3;H335 May cause respiratory irritation.
Aquatic toxicity (chronic), category 3;H412 Harmful to aquatic life with long lasting effects.

Label elements



Danger

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.

[Prevention]

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P233 Keep container tightly closed.
P260 Do not breathe dust, fume, mist, vapors or spray.



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P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves, eye protection, and face protection.
P281 Use personal protective equipment as required.
P284 In case of inadequate ventilation, wear respiratory protection.

[Response]

P302+352 IF ON SKIN: Wash with plenty of soap and water.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P341 If inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313 IF exposed or concerned: Get medical advice or attention.
P310 Immediately call a POISON CENTER, doctor or physician.
P333+313 If skin irritation or a rash occurs: Get medical advice or attention.
P337+313 If eye irritation persists: Get medical advice or attention.
P342+311 If experiencing respiratory symptoms: Call a POISON CENTER, doctor or physician.
P362+364 Take off contaminated clothing and wash it before reuse.

[Storage]

P403+233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.

[Disposal]

P501 Dispose of contents or container in accordance with local and national regulations.

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.
This product contains no endocrine disrupting chemicals.

Does not contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the Organization for Economic Co-operation and Development (OECD) list of Per- and Polyfluoroalkyl Substances (PFASs).



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Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Toluene diisocyanate (mixed isomers) Toluene-2,4-diisocyanate CAS Number: 584-84-9 Synonyms: 2,4-TDI, 2,4-Toluene Diisocyanate (TDI), 4-Methyl-m-phenylene diisocyanate, TOLUENE DIISOCYANATE, Toluene-2,6-di-isocyanate	80%	Carcinogen, category 2;H351 Acute toxicity(inhalation), category 2;H330 Serious eye damage / eye irritation, category 2;H319 Specific target organ toxicity, Single exposure category 3;H335 Skin corrosion/irritation category 2;H315 Respiratory sensitization, category 1;H334 C ≥ 0,1 % Skin sensitizer category 1;H317 Aquatic toxicity (chronic), category 3;H412	No data available
2,6-Toluene Diisocyanate (TDI) CAS Number: 91-08-7 Synonyms: 1,6-Toluene Diisocyanate, 2-Methyl-m-phenylene diisocyanate, Benzene, 1,3-diisocyanato-2-methyl-, TOLUENE-2,6-DIISOCYANATE	20%	Carcinogen, category 2;H351 Acute toxicity(inhalation), category 2;H330 Serious eye damage / eye irritation, category 2;H319 Specific target organ toxicity, Single exposure category 3;H335 Skin corrosion/irritation category 2;H315 Respiratory sensitization, category 1;H334 C ≥ 0,1 % Skin sensitizer category 1;H317 Aquatic toxicity (chronic), category 3;H412	No data available

The actual concentration or concentration range is withheld as a trade secret.

*PBT/vPvB - PBT, vPvM or vPvB-substance.

The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

Description of first aid measures



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- General** In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.
- Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
- Eyes** Rinse with plenty of clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
- Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
- Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

- Overview** No specific symptom data available.
Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient).
Risk of cancer depends on duration and level of exposure.
Treat symptomatically. See section 2 for further details.
- Inhalation** Fatal if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Eyes** Causes serious eye irritation.
- Skin** May cause an allergic skin reaction. Causes skin irritation.

Section 5. Fire-fighting measures

Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Unsuitable extinguishing media: Do not use; water jet.

Special hazards arising from the substance or mixture

Hazardous decomposition: NO₂, TDI vapors, CO₂, CO, HCl, HCN
Keep container tightly closed.
Do not breathe dust, fume, mist, vapors or spray.
Vapor-air mixtures are explosive above flash point.
Slight fire hazard when exposed to heat or flame.



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Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full-face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking. Rescuers should put on appropriate protective gear. Evacuate area and fight fire from a safe distance. Substance may be transported in a molten form. Dike fire-control water for later disposal; do not scatter the material. Move containers from fire area if you can do it without risk. Fire involving Tanks; Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Fire involving Tanks; Cool containers with flooding quantities of water until well after fire is out. Fire involving Tanks; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Fire involving Tanks; Always stay away from tanks engulfed in fire. Fire involving Tanks; For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8). Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Avoid breathing dust/fume/gas/mist/vapors/spray. Clean up spills immediately, observing precautions in Protective Equipment section. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all ignition sources. Stop leak if you can do it without risk. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.



Cover with plastic sheet to prevent spreading.

Environmental precautions

Do not allow spills to enter drains or waterways.

Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

Reduce dust and prevent scattering by moistening with water.

Absorb the liquid and scrub the area with detergent and water.

Section 7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood.

Handle containers carefully to prevent damage and spillage.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash your hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

Use carefully in handling/storage.

Loosen closure cautiously before opening.

Avoid prolonged or repeated contact with skin.

See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.

Examination of lung function should be carried out on a regular basis on persons applying this preparation.

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



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Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of.

Storage temperature : 20 – 30 °C

Incompatible materials: No available information

See section 2 for further details. - [Storage]

Specific end use(s)

No available information

Section 8. Exposure controls / personal protection

Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
91-08-7	2,6-Toluene Diisocyanate (TDI)	OSHA	No Established Limit
		ACGIH	0.001 ppm (IFV) Inhalable Fraction and Vapor 0.005 ppm
		NIOSH	No Established Limit
584-84-9	Toluene diisocyanate (mixed isomers) Toluene-2,4-diisocyanate	OSHA	C 0.02 ppm, 0.14 mg/m ³
		ACGIH	0.001 ppm (IFV) Inhalable Fraction and Vapor 0.005 ppm
		NIOSH	Ca

Exposure controls

Respiratory If workers are exposed to concentrations above the exposure limit, they must use the appropriate, certified respirators.

Eyes Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.



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Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Liquid
Color	Colorless to Yellowish
Odor	Characteristic, pungent
Odor threshold	0.05ppm
Melting point / freezing point	11.5-13.5°C
Initial boiling point and boiling range	251°C(1013hPa)
Flammability (solid, gas)	No gas generation or spontaneous ignitions were observed during any of the tests.
Upper/lower flammability or explosive limits	Lower Explosive Limit: 0.5%
Flash Point	Upper Explosive Limit: 9.5%
Auto-ignition temperature	135°C
Decomposition temperature	>600°C
pH	No available information
Viscosity (cSt)	No available information
Solubility in Water	3.1cPs (25 °C)
Partition coefficient n-octanol/water (Log Kow)	Non-soluble
Vapor pressure (Pa)	Log Kow = 3.74 (estimated)
Relative Density	0.03mmHg (25°C)
Vapor Density	1.22 (25°C)
Evaporation rate (Ether = 1)	6 (Air=1)
Oxidising properties	No available information
Explosive properties	No available information



Other information

No other relevant information.

Section 10. Stability and reactivity

Reactivity

Reacts exothermically with water yielding carbon dioxide and an organic base.

Chemical stability

Stable under normal circumstances. Stable (Non-hazardous polymerization occurs slowly above 40 °C)

Possibility of hazardous reactions

May brown on exposure to sunlight

Toxic gas that may accumulate in a closed space

This material is frozen at less than 15°C and can be produce dimer at high temperatures.

Conditions to avoid

Avoid high temperatures and contact with incompatible material

Containers may be exploded and ruptured when heated.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Incompatible materials

Water, acid, acyl chloride, alcohol, aluminum, amines, ammonia, aniline, strong bases, copper and copper alloys, activated hydrogen, metal, oxidizing agents, plastics, rubber coating, polyurethane, surface active agents, zinc alloy.

Hazardous decomposition products

Thermal decomposition products may include highly toxic hydrogen cyanide, and toxic and hazardous carbon oxides and nitrogen.

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).



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Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Toluene diisocyanate (mixed isomers) Toluene-2,4- diisocyanate - (584-84-9)	5,800.00, Rat - Category: NA	19,360.00, Rabbit - Category: NA	No data available.	No data available.	No data available.
2,6-Toluene Diisocyanate (TDI) - (91-08-7)	5,800.00, Rat - Category: NA	10,000.00, Rabbit - Category: NA	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
91-08-7	2,6-Toluene Diisocyanate (TDI)	OSHA NTP IARC ACGIH	Regulated Carcinogen: No; Known: No; Suspected: Yes; Group 2b A3
584-84-9	Toluene diisocyanate (mixed isomers) Toluene-2,4- diisocyanate	OSHA NTP IARC ACGIH	Regulated Carcinogen: No; Known: No; Suspected: Yes; Group 2b A3

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	2	Fatal if inhaled.
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2A	Causes serious eye irritation.
Respiratory sensitization	1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	2	Suspected of causing cancer.
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-single exposure	3	May cause respiratory irritation.
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable



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Possible routes of entry:

All routes of entry possible.

Symptoms and effects, both acute and delayed:

No specific symptom data available.

Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.

Treat symptomatically.

Eyes Causes serious eye irritation.

Skin May cause an allergic skin reaction. Causes skin irritation.

Section 12. Ecological information

Toxicity

Harmful to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Toluene diisocyanate (mixed isomers) Toluene-2,4-diisocyanate - (584-84-9)	164.50, Pimephales promelas	No data available.	No data available.
2,6-Toluene Diisocyanate (TDI) - (91-08-7)	165.00, Fish	509.00, Daphnia magna	No data available.

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

No available information

Mobility in soil

No available information

Results of PBT and vPvB assessment



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This product contains no PBT/vPvB/vPvM chemicals.

Other adverse effects

No available information

Section 13. Disposal considerations

Waste treatment methods

Observe all federal, provincial and local regulations when disposing of this substance.

Section 14. Transport information



	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN2078	UN2078	UN2078
UN proper shipping name	UN2078, Toluene diisocyanate, 6.1, II	Toluene diisocyanate	Toluene diisocyanate
Transport hazard class(es)	Class: 6.1 Sub Class: Not Applicable	Class: 6.1 Sub Class: Not Applicable	Class: 6.1 Sub Class: Not Applicable
Packing group	II	II	II

Environmental hazards

IMDG Marine Pollutant: No;



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Special precautions for user

No available information

Section 15. Regulatory information

Regulatory Overview

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Toxic Substance Control Act (TSCA)

2,4-Toluene Diisocyanate (CAS #584-84-9) is subject to TSCA 12(b) Export Notification.

TSCA Section 5(a)(2) Significant New Use Rule (SNUR) for Existing

Chemicals: 2,4-Toluene Diisocyanate (CAS #584-84-9), Restricted use in a consumer product.

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
0000091-08-7	2,6-Toluene Diisocyanate (TDI)	Yes	SP	ACTIVE
0000584-84-9	Toluene diisocyanate (mixed isomers) Toluene-2,4-diisocyanate	Yes	SP	ACTIVE

The following flags are used:

- Active - indicates commercial status designation of active
- E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.
- F - indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P - indicates a commenced Premanufacture Notice (PMN) substance.
- R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S - indicates a substance that is identified in a final Significant New Uses Rule.
- SP - indicates a substance that is identified in a proposed Significant New Uses Rule.
- T - indicates a substance that is the subject of a final Section 4 test rule under TSCA.
- UVCB Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials
- XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
- Y1 - indicates a polymer that has a number-average molecular weight greater than 1,000 and that was exempt under the 1984 polymer exemption rule.
- Y2 - indicates a polymer that is a polyester and that was exempt under the 1984 polymer exemption rule.

EPCRA 302 Extremely Hazardous:

2,6-Toluene Diisocyanate (TDI)



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Toluene diisocyanate (mixed isomers) Toluene-2,4- diisocyanate

EPCRA 313 Toxic Chemicals:

2,6-Toluene Diisocyanate (TDI)

Toluene diisocyanate (mixed isomers) Toluene-2,4- diisocyanate

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:



WARNING: This product can expose you to chemicals including [Toluene diisocyanate (mixed isomers) Toluene-2,4- diisocyanate], which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Mass RTK Substances (>1%) :

2,6-Toluene Diisocyanate (TDI)

Toluene diisocyanate (mixed isomers) Toluene-2,4- diisocyanate

New Jersey RTK Substances (>1%):

2,6-Toluene Diisocyanate (TDI)



Pennsylvania RTK Substances (>1%):

2,6-Toluene Diisocyanate (TDI)

Toluene diisocyanate (mixed isomers) Toluene-2,4- diisocyanate

OSHA Process Safety Management Standard Highly Hazardous Chemicals, Toxics and Reactives:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

US EPA List of Regulated Substances under the Risk Management Plan (RMP) Program:

2,6-Toluene Diisocyanate (TDI)

Toluene diisocyanate (mixed isomers) Toluene-2,4- diisocyanate 10,000 Lbs.

US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) under the Minimum Risk Exemption:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

U.S. - DEA List II or Essential Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

U.S. - DEA - Exempt Chemical Mixtures - List 1 and 2:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

US DHS Chemical Facility Anti-Terrorism Standards (CFATS):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

CERCLA Chemicals and RQs (lbs):

2,6-Toluene Diisocyanate (TDI) (100.00)

Toluene diisocyanate (mixed isomers) Toluene-2,4- diisocyanate (100.00)



Section 16. Other information

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DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

The full text of the phrases appearing in section 3 is:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.



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