



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
US OSHA

Revision date 22-Oct-2020

Supersedes Date: 12-Oct-2015

Revision Number 4

1. Identification

Product identifier

Product Name TexFRon 9001

Other means of identification

Product Code(s) 9536TSP

Chemical name The chemical identity of this product is a trade secret.

Recommended use of the chemical and restrictions on use

Recommended use Flame retardant for textile applications

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address

ICL
622 Emerson Road - Suite 500
St. Louis, Missouri 63141, USA
Tel:(314)983-7884 Fax:(314)983-7607
e-mail:msdsinfo@icl-group.com

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC)

Not Applicable

Label elements

Hazard statements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)
The product contains no substances which at their given concentration, are considered to be hazardous to health.

Other information

Not Applicable

3. Composition/information on ingredients

Substance**Component information**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical name	CAS No.	Weight-%
Proprietary Flame Retardant	Proprietary	>97

4. First-aid measures**Description of first aid measures**

Inhalation	Supply fresh air; consult doctor in case of symptoms.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediately. NOTE: Never give an unconscious person anything to drink

Most important symptoms and effects, both acute and delayed

Symptoms	No information available. .
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically and supportively.
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5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Specific hazards arising from the chemical	May emit toxic fumes under fire conditions. Dust may form an explosive mixture with air. [Kst=77 bar.m.s(-1)].
Hazardous combustion products	HBr.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Personal precautions	Ensure adequate ventilation. Avoid generation of dust.
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Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
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Methods for cleaning up	Pick up and transfer to properly labeled containers. .
Environmental precautions	Should not be released into the environment. See Section 12 for additional Ecological Information.
Reference to other sections	See section 8 for more information. See section 13 for more information.

7. Handling and storage

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid generation of dust.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.
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8. Exposure controls/personal protection

Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary Flame Retardant	-	-	-

Manufacturers Recommendation	5 mg/m ³
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Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems
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Individual protection measures, such as personal protective equipment

Eye/face protection	Chemical safety goggles.
Hand protection	Protective gloves
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. In case of insufficient ventilation, wear suitable respiratory equipment.
Skin and body protection	Wear suitable protective clothing.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Solid
Appearance	crystalline powder
Color	white
Odor	None
Odor threshold	Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	no data available	None known
Melting point / freezing point	>105 °C	
Boiling point / boiling range	no data available	None known
Flash point	no data available	None known
Evaporation rate	Not available	
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	no data available	
Lower flammability or explosive limits	no data available	
Vapor pressure	no data available	
Vapor density	Not available	
Relative density	2.3	
Water solubility	0.144 µg/l (20°C)	
Solubility in other solvents	no data available	None known
Partition coefficient	Log Pow : 7.2	
Autoignition temperature	740 °C / 1364 °F	
Decomposition temperature	306°C	
Kinematic viscosity	no data available	None known
Dynamic viscosity	no data available	None known
<u>Other information</u>		
Oxidizing properties	The structure indicates non oxidizing properties	
Explosive properties	Not explosive	
Particle Size	D10 =2 µm, D50 =< 5 µm,D90 =< 20 µm	

10. Stability and reactivity

Reactivity	No reactive hazards known/expected.
Chemical stability	Stable under normal conditions. .
Possibility of Hazardous Reactions	None under normal processing. .
Conditions to avoid	Heating above decomposition temperature. .
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	HBr.

11. Toxicological information

Information on likely routes of exposure

Product Information

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
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Acute toxicity

Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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Proprietary Flame Retardant	>2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	>24.4 mg/l (1h) (Rat)
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Not irritant.
Serious eye damage/irritation	Minimal irritant. Does not meet classification criteria.
Respiratory or skin sensitization	Not a skin sensitizer.
Germ cell mutagenicity	Not mutagenic by the Ames Test (NTP study). Mutagenic by the Ames Test. (internal study). Negative in the micronucleus study (NTP study in mice). Not mutagenic in the mouse lymphoma L5178Y test system.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	ACGIH	IARC	NTP	US OSHA
Proprietary Flame Retardant	-	-	-	-

Reproductive toxicity	No information available.
Teratogenicity	Not established.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	Not expected.

12. Ecological information**Ecotoxicity****Component information**

Chemical name	Algae/aquatic plants	Fish	Crustacea	Toxicity to microorganisms
Proprietary Flame Retardant	> 100 mg/L (72h, Selenastrum capricornutum, nominal concentration WAF)	>100 mg/L nominal concentration WAF (96h, Rainbow trout) > 500 mg/L (96h, BCF<100) in Carp	>100 mg/L (48h, Daphnia magna, nominal concentration WAF)	-

Persistence and degradability	Not readily biodegradable
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Bioaccumulation	No bioaccumulation was detected in earthworms (Eisenia fetida, 21 days). BCF=3.4 ~ 130.
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Component information

Chemical name	Partition coefficient
Proprietary Flame Retardant	7.2

Mobility	The adsorption-coefficient log Koc is >>5.63 (OECD 121)
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Other adverse effects

The product was analysed for polybrominated p-Dibenzodioxins and Dibenzofurans contamination. The results show that no polybrominated Dibenzodioxins and Dibenzofurans higher than the limits of quantitation according to the Toxic Substance Control Act (TSCA) 40/CFR 766.27 are present. Also the limits of the german ordinance (Chemikalien-Verbotsverordnung) for polybrominated Dibenzodioxins and Dibenzofurans are fulfilled.

13. Disposal considerations

Waste treatment methods**Waste from residues/unused products**

Observe all federal, state and local environmental regulations when disposing of this material.

Contaminated packaging

Empty containers should be disposed of in accordance with all applicable laws and regulations.

14. Transport information

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

IATA**Special precautions**

Not regulated

None

IMDG**Special precautions**

Not regulated

None

15. Regulatory information

International Inventories

GHS hazardous component CAS registry numbers appearing in section 3 may differ from substances appearing in section 15 due to country or regional chemical inventory coverage requirements, however, remain in compliance with the inventory Products that are used as food additives are exempt from listing in international chemical inventories

Chemical name	TSCA Inventory List Active/Inactive
Proprietary Flame Retardant (>97)	Present (ACTIVE)

TSCA	Listed or exempted
DSL	Not Listed
ENCS	Listed or exempted
IECSC	Listed or exempted
KECL	Listed or exempted
PICCS	Listed or exempted
AICS	Listed or exempted
NZIoC	Not Listed
TCSI	Listed or exempted
NCI	Listed or exempted
TECI	Listed or exempted
NSQ	Not Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory
NCI - Vietnam National Chemicals Inventory
TECI - Thailand Inventory FDA Existing Chemicals
NSQ - Mexico National Inventory of Chemical Substances

US Federal Regulations

Chemical name	U.S. - TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)
Proprietary Flame Retardant -	-

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Proprietary Flame Retardant	-	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Proprietary Flame Retardant	-	-

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations**US State Regulations**

This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. Other information

NFPA	Health hazards 0	Flammability 1	Instability 0	Physical and chemical properties -
HMIS	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

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End of Safety Data Sheet