

SAFETY DATA SHEET**Protectosil® CHEM-TRETE® 40D**

Material no.		Version	3.0 / US
Specification	141227	Revision date	05/19/2015
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1. Identification**1.1. Product identifier**

Trade name	Protectosil® CHEM-TRETE® 40D
Chemical Name	CHEM-TRETE® BSM-40 D

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified	For industrial use
Function	Waterproofing agent

1.3. Details of the supplier of the safety data sheet

Company	Evonik Corporation USA 299 Jefferson Road Parsippany, NJ 07054-0677 USA
Telephone	973-929-8000
Telefax	973-929-8040
Email address	Product-Regulatory-Services@Evonik.com

1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC - US & CANADA:	800-424-9300
CHEMTREC MEXICO:	01-800-681-9531
CHEMTREC INTERNATIONAL:	+1 703-527-3887 (collect calls accepted)
Product Regulatory Services	: 973-929-8060

2. Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation 29CFR 1910.1200

Flammable liquids	Category 2	H225
Acute toxicity (Oral)	Category 4	H302
Skin irritation	Category 2	H315
Specific target organ toxicity - single exposure (Optic nerve, central nervous system)	Category 1	H370

2.2. Label elements

Statutory basis	Classification according to Regulation 29CFR 1910.1200
Symbol(s)	



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Signal word	Danger
Hazard statement	H225 - Highly flammable liquid and vapour. H302 - Harmful if swallowed. H315 - Causes skin irritation. H370 - Causes damage to organs.
Precautionary statement Prevention	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 - Keep container tightly closed. 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. P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/spray. P264 - Wash skin thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/ eye protection/ face protection.
Precautionary statement Reaction	P307 + P311 - IF exposed or concerned: Call a POISON CENTER/doctor. P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P330 - Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P332 + P313 - If skin irritation occurs: Get medical advice/ attention. P363 - Wash contaminated clothing before reuse. P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
Precautionary statement Storage	P403 + P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
Precautionary statement Disposal	P501 - Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

None known.

3. Composition/information on ingredients

<ul style="list-style-type: none"> • Ethanol; ethyl alcohol >= 30% - < 60%
CAS-No. 64-17-5 Flammable liquids Category 2
<ul style="list-style-type: none"> • Triethoxyisobutyl silane >= 10% - < 30%
CAS-No. 17980-47-1 Flammable liquids Category 4 Skin irritation Category 2
<ul style="list-style-type: none"> • Silicic acid, ethyl ester >= 10% - < 30%
CAS-No. 11099-06-2 Remarks Not a hazardous substance or mixture.
<ul style="list-style-type: none"> • Methanol >= 10% - < 30%
CAS-No. 67-56-1 Flammable liquids Category 2

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Acute toxicity (Oral)	Category 3
Acute toxicity (Inhalation)	Category 3
Acute toxicity (Dermal)	Category 3
Specific target organ toxicity - single exposure	Category 1

• Tetraethyl silicate	>= 1% - < 5%
CAS-No. 78-10-4	
Flammable liquids	Category 3
Eye irritation	Category 2A
Acute toxicity (Inhalation)	Category 4
Specific target organ toxicity - single exposure (Respiratory system)	Category 3
Acute aquatic toxicity	Category 3

4. First aid measures**4.1. Description of first aid measures****Inhalation**

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

Skin contact

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly wash clothing, shoes and protective equipment before reuse or discard. Get medical attention if irritation develops or persists.

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention.

Ingestion

If swallowed, get medical attention immediately. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms**

None known

4.3. Indication of any immediate medical attention and special treatment needed

None known.

5. Fire-fighting measures**5.1. Extinguishing media**

Suitable extinguishing media: Use water spray or fog, foam, dry chemical or CO₂.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

5.3. Advice for firefighters

Containers can build up pressure if exposed to heat (fire). Cool with water spray.

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Additional advice

Remove sources of ignition and ventilate area.
Run off may create fire or explosion hazard in sewer.
Assure sufficient ventilation.

7. Handling and storage**7.1. Precautions for safe handling**

Wear personal protective equipment; see section 8. Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Ground and bond containers when transferring material. Use explosion-proof equipment. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling. Vapors may spread long distances and travel to areas away from the work site before igniting or flashing back to the vapor source.

7.2. Conditions for safe storage, including any incompatibilities**Advice on protection against fire and explosion**

This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. An ignitable vapor-air mixture can form inside storage tanks.

The user must be sure to dissipate static charge by careful bonding and grounding of all equipment and personnel involved in fluid transfer with continuity checks to prove effectiveness. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dip-pipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines and flame arrestors in vent lines.

Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

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

Storage

Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.
Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

8. Exposure controls/personal protection**8.1. Control parameters****• Ethanol**

CAS-No.	64-17-5	
Control parameters	1000 ppm 1900 mg/m ³	Permissible exposure limit:(OSHA Z1)

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Control parameters	1000 ppm 1900 mg/m ³	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
Control parameters	1000 ppm	Short Term Exposure Limit (STEL):(ACGIH)
Control parameters	1000 ppm 1900 mg/m ³	Time Weighted Average (TWA):(TN OEL)
• Methanol		
CAS-No.	67-56-1	
Control parameters	200 ppm	Time Weighted Average (TWA):(ACGIH)
Control parameters	250 ppm	Short Term Exposure Limit (STEL):(ACGIH)
Control parameters		Skin designation:(ACGIH)
	Can be absorbed through the skin.	
Control parameters	200 ppm 260 mg/m ³	Permissible exposure limit:(OSHA Z1)
Control parameters	200 ppm 260 mg/m ³	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
Control parameters	1000 ppm	Ceiling Limit Value:(US CA OEL)
Control parameters	250 ppm 325 mg/m ³	Short Term Exposure Limit (STEL):(US CA OEL)
Control parameters		Skin designation:(US CA OEL)
	Can be absorbed through the skin.	
Control parameters	200 ppm 260 mg/m ³	Time Weighted Average (TWA):(TN OEL)
Control parameters	250 ppm 325 mg/m ³	Short Term Exposure Limit (STEL):(TN OEL)
Control parameters		Skin designation:(TN OEL)
	Can be absorbed through the skin.	
• Tetraethyl silicate		
CAS-No.	78-10-4	
Control parameters	10 ppm	Time Weighted Average (TWA):(ACGIH)
Control parameters	100 ppm 850 mg/m ³	Permissible exposure limit:(OSHA Z1)
Control parameters	10 ppm 85 mg/m ³	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
Control parameters	10 ppm 85 mg/m ³	Time Weighted Average (TWA):(TN OEL)

8.2. Exposure controls**Engineering measures**

Use this product preferably in a closed system, or use process enclosures, local exhaust ventilation or other engineering controls to minimize airborne exposure.

Personal protective equipment**Respiratory protection**

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

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Hand protection

Use impermeable gloves.

Personal protective equipment that provides a barrier to prevent dermal exposure to this substance is required.

Eye protection

Use chemical splash goggles or face shield.

Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures

Avoid contact with skin, eyes and clothing. Do not inhale vapors or aerosols. Do not eat, drink, or smoke when using the product. Remove contaminated or saturated clothing.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

physical state	liquid
Colour	clear
Form	liquid
Odour	strong odor
Odour Threshold	no data available
pH	not applicable
Melting point/freezing point	no data available
Boiling point/range	78 °C (760 hPa)
Flash point	12.78 °C Method: Pensky-Martens C.C.
Evaporation rate	no data available
Flammability (solid, gas)	No data available
Lower explosion limit	3.5 %(V)
Upper explosion limit	44.0 %(V)
Vapour pressure	74 hPa (22 °C)
Vapour density	no data available
Relative density	0.8
Solubility/qualitative	no data available
Partition coefficient: n-octanol/water	no data available

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Autoignition temperature	not determined
Thermal decomposition	no data available
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available

9.2. Other information

Explosiveness	Vapors can form explosive mixtures with air.
% VOC (gm/l)	600

10. Stability and reactivity**10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No dangerous reactions known.

10.4. Conditions to avoid

Avoid high temperatures and sources of ignition.

10.5. Incompatible materials

Water, oxidizing agents

10.6. Hazardous decomposition products

This product is not stable under normal storage conditions.
Product will not undergo hazardous polymerization.

11. Toxicological information**11.1. Information on toxicological effects**

Acute oral toxicity	Acute toxicity estimate : 909.09 mg/kg Method: Calculation method
Acute inhalation toxicity	Acute toxicity estimate : 27.27 mg/l / 4 h / vapour Method: Calculation method
Acute dermal toxicity	Acute toxicity estimate : 2727 mg/kg Method: Calculation method
carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
Further information	No toxicological tests have been conducted with the product itself.

**Toxicological information on components
Triethoxyisobutyl silane**

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Acute oral toxicity	LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	LC50 Rat: 5.88 mg/l / 4 h / Aerosol Method: OECD Test Guideline 403
Acute dermal toxicity	LD50 Rat: > 2000 mg/kg Method: OECD Test Guideline 402
Skin irritation	Rabbit irritating Method: OECD Test Guideline 404
Eye irritation	Rabbit Not irritating. Method: OECD Test Guideline 405
Sensitization	Maximization test Guinea pig: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Repeated dose toxicity	Oral Rat / 28-day NOAEL: > 1000 mg/kg Method: OECD Test Guideline 407
Gentoxicity in vitro	Ames test Salmonella typhimurium negative Method: OECD TG 471
	Chromosome aberration test in vitro Chinese hamster (V 79 -cells) negative Method: OECD TG 473
	Chromosome aberration test in vitro Chinese hamster (CHO K1 -cells) negative Method: OECD TG 476
Gentoxicity in vivo	chromosomal aberration Mouse Oral negative Method: OECD TG 474
Toxicity to reproduction	Animal model trials have produced no evidence of fertility damage.

Methanol

Acute oral toxicity	Acute toxicity estimate : 100 mg/kg Method: Expert judgement
Acute inhalation toxicity	Acute toxicity estimate : 3 mg/l / vapour Method: Expert judgement
Acute dermal toxicity	Acute toxicity estimate : 300 mg/kg Method: Expert judgement
Skin irritation	Rabbit

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	No skin irritation
Eye irritation	Rabbit No eye irritation Method: OECD Test Guideline 405
Sensitization	Maximization test Guinea pig: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Repeated dose toxicity	Oral Monkey LOAEL: 2340 mg/kg
Assessment of STOT single exposure	Assessment: Causes damage to organs.
Assessment of STOT repeat exposure	no evidence for hazardous properties
Risk of aspiration toxicity	No evidence of aspiration toxicity
Gentoxicity in vitro	Ames test Salmonella typhimurium negative Method: OECD Test Guideline 471
Gentoxicity in vivo	chromosomal aberration Mouse intraperitoneal (i.p.) negative Method: OECD Test Guideline 474
teratogenicity assessment	Potential embryo-foetal toxicity and teratogenicity.
Human experience	Liver and kidney injuries may occur.
Further information	Material contains methanol. Harmful if inhaled or absorbed through skin; causes damage to liver, kidney and nervous system. Causes eye, skin, nose and throat irritation. May be fatal or cause blindness if swallowed. Cannot be made non-poisonous.

Ethanol

Acute oral toxicity	LD50 Rat: 7060 mg/kg RTECS LD50 Rat: 10470 mg/kg Method: OECD Test Guideline 401 literature
Acute inhalation toxicity	LC50 Rabbit: 117 - 125 mg/l / 4 h / vapour Method: OECD Test Guideline 403 literature
Acute dermal toxicity	LD50 Rabbit: > 20000 mg/kg literature
Skin irritation	Rabbit not irritating Method: OECD Test Guideline 404 literature

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Eye irritation	Rabbit not irritating Method: OECD Test Guideline 405 literature
Sensitization	Local Lymphnode Assay Mouse: No sensitizing effects. Method: OECD TG 429 literature
Assessment of STOT single exposure	no evidence for hazardous properties
Assessment of STOT repeat exposure	no evidence for hazardous properties
Risk of aspiration toxicity	No evidence of aspiration toxicity
Gentoxicity in vitro	Ames test Salmonella typhimurium negative Method: OECD TG 471 literature gene mutation TK +/- mouse lymphoma cell (L5178Y) negative Method: OECD TG 476 literature
Mutagenicity assessment	This product contains an ingredient that has been shown to produce mutagenic effects in in vivo testing.

Tetraethyl silicate

Acute oral toxicity	LD50 Rat: > 2500 mg/kg Method: OECD TG 423 LD50 Rat: > 2000 mg/kg Method: OECD Test Guideline 401 (limit test)
Acute inhalation toxicity	LC50 Rat: 10 - 16 mg/l / 4 h / Aerosol Method: OECD Test Guideline 403
Skin irritation	Rabbit Not irritating. Method: OECD Test Guideline 404
Eye irritation	Rabbit Not irritating. Method: OECD Test Guideline 405 Human Irritating to eyes.
Sensitization	Buehler Test Guinea pig: No sensitizing effects. Method: OECD Test Guideline 406

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Repeated dose toxicity	Oral Rat	
	Testing period:	28 d
	NOAEL:	10 mg/kg
	Method:	OECD TG 422
Assessment of STOT single exposure	Inhalative Mouse	
	Testing period:	28 d
	LOAEL:	0.43 mg/l
	Method:	OECD 412
Gentotoxicity in vitro	Assessment	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
Toxicity to reproduction		not mutagenic
Human experience		Animal testing did not show any effects on fertility.
		Liver and kidney injuries may occur.

12. Ecological information**12.1. Toxicity***no data available***12.2. Persistence and degradability**

Biodegradability no data available

12.3. Bioaccumulative potential

Bioaccumulation no data available

12.4. Mobility in soil

Mobility no data available.

12.5. Other adverse effects

Further Information No ecotoxicological studies are available.

13. Disposal considerations**13.1. Waste treatment methods**

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Waste must be disposed of in accordance with federal, provincial, state and local regulations. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH AN ELECTRIC OR GAS TORCH.

Uncleaned packaging

Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

14. Transport information**D.O.T. Road/Rail**

14.1. UN number:	UN 1139
14.2. UN proper shipping name:	Coating solution
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
14.5. Environmental hazards (Marine pollutant):	--
14.6. Special precautions for user:	No

Air transport ICAO-TI/IATA-DGR

14.1. UN number:	UN 1139
14.2. UN proper shipping name:	Coating solution
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
14.5. Environmental hazards:	--
14.6. Special precautions for user:	Yes
IATA-C:	ERG-Code 3L
IATA-P:	ERG-Code 3L

Sea transport IMDG-Code/GGVSee (Germany)

14.1. UN number:	UN 1139
14.2. UN proper shipping name:	COATING SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
14.5. Environmental hazards (Marine pollutant):	--
14.6. Special precautions for user:	No
EmS:	F-E, S-E

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transport approval see regulatory information

15. Regulatory information**US Federal Regulations****OSHA**

If listed below, chemical specific standards apply to the product or components:

- None listed

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Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- Methanol
CAS-No. 67-56-1

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- Methanol
CAS-No. 67-56-1
Reportable Quantity 45455 lbs

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Fire Hazard

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- Methanol
CAS-No. 67-56-1

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

State Regulations

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

- Ethanol
CAS-No. 64-17-5

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An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

HMIS Ratings

Health :	2
Flammability :	3
Physical Hazard :	1

NFPA Ratings

Health :	2
Flammability :	3
Reactivity :	1

16. Other information**Further information**

Revision date 05/19/2015

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend

ACC	American Chemistry Council
ACGIH	American Conference of Governmental Industrial Hygienists
ACS	Advisory Committee on Sustainability
ADI	Acceptable Daily Intake
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BOD	Biochemical oxygen demand
c.c.	closed cup
CAO	Cargo Aircraft Only
Carc	Carcinogen
CAS	Chemical Abstract Services
CDN	Canada
CEPA	Canadian Environmental Protection Act
CERCLA	Comprehensive Environmental Response – Compensation and Liability Act
CFR	Code of Federal Regulations
CMR	carcinogenic-mutagenic-toxic for reproduction
COD	Chemical oxygen demand
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
DOT	Department of Transportation
EC50	half maximal effective concentration
EPA	Environmental Protection Agency
ErC50	Reduction of Growth Rate
ERG	Emergency Response Guide Book
FDA	Food and Drug Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
HCS	Hazard Communication Standard
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO-TI	International Civil Aviation Organization- Technical Instructions
ICCA	International Council of Chemical Association
ID	Identification number
IMDG	International Maritime Dangerous Goods
IUPAC	International Union of Pure and Applied Chemistry
ISO	International Organization For Standardization
LC50	50 % Lethal Concentration
LD50	50 % Lethal Dose
L(EC50)	LC50 or EC50
LOAEL	Low est observed adverse effect level
LOEL	Low est observed effect level
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
RQ	Reportable Quantity
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
UN	United Nations
vPvB	very persistent, very bioaccumulative

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voc volatile organic compounds
WHMIS Workplace Hazardous Materials Information System
WHO World Health Organization