

Material Safety Data Sheet

Triple X

Section 1. Chemical product and company identification

Trade name : Triple X
Product use : Floor care product
Supplier : Ecolab Co.
 5105 Tomken Road
 Mississauga ON L4W 2X5
 1-800-352-5326

Code : 900556
Date of issue : 19-August-2008

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
distillates (petroleum), hydrotreated light	64742-47-8	10 - 30
octamethylcyclotetrasiloxane	556-67-2	10 - 30
xylene	1330-20-7	3 - 7
ethylbenzene	100-41-4	0.5 - 1.5
naphtha (petroleum), heavy straight-run	64741-41-9	10 - 30

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : WARNING !

COMBUSTIBLE LIQUID AND VAPOUR.
 MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
 HARMFUL OR FATAL IF SWALLOWED.
 ASPIRATION HAZARD. CAN ENTER LUNGS AND CAUSE DAMAGE.
 Can cause central nervous system (CNS) depression.

Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist.
 Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Eyes : Moderately irritating to eyes.
Skin : Moderately irritating to the skin.
Inhalation : Moderately irritating to the respiratory system. High vapour concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.
Ingestion : May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Ingestion may cause nausea, weakness and central nervous system effects.

See toxicological information (section 11)

Section 4. First-aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention if irritation persists.

Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

Section 5. Fire-fighting measures

Auto-ignition temperature : Not available.

Flash point : 41 °C (Closed cup)

Flammable limits : Lower: 1%
Upper: 6%

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Fire-fighting media and instructions : Use dry chemical, CO₂, water spray (fog) or foam.
Use water spray to keep fire-exposed containers cool. Dyke area of fire to prevent runoff.

Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Risk of explosion of the product in the presence of mechanical impact: Not available.

Risk of explosion of the product in the presence of static discharge: Not available.

Section 6. Accidental release measures

Personal precautions : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up : If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dyke spilt material or otherwise contain it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

Section 7. Handling and storage

Handling : Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapours, spray or mists. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Storage : Keep out of reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
Do not store above the following temperature: 35°C

Section 8. Exposure controls/personal protection

Engineering measures : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits.

Personal protection :

Eyes : Eye protection recommended.

Hands : For prolonged or repeated handling, use the following type of gloves: Impervious gloves.

Skin : No protective equipment is needed under normal use conditions.

Respiratory : Avoid breathing vapours, spray or mists.

Name **Exposure limits**

distillates (petroleum), hydrotreated **CA British Columbia Provincial (Canada, 7/2007). Absorbed through skin.**
light TWA: 200 mg/m³, (as total hydrocarbon vapour) 8 hour(s).

ACGIH TLV (United States, 1/2007). Absorbed through skin.

TWA: 200 mg/m³ 8 hour(s).

xylene

CA Alberta Provincial (Canada, 10/2006).

15 min OEL: 651 mg/m³ 15 minute(s).

15 min OEL: 150 ppm 15 minute(s).

8 hrs OEL: 434 mg/m³ 8 hour(s).

8 hrs OEL: 100 ppm 8 hour(s).

CA British Columbia Provincial (Canada, 7/2007).

STEL: 150 ppm 15 minute(s).

TWA: 100 ppm 8 hour(s).

CA Ontario Provincial (Canada, 3/2007).

STEV: 650 mg/m³ 15 minute(s).

STEV: 150 ppm 15 minute(s).

TWAEV: 435 mg/m³ 8 hour(s).

TWAEV: 100 ppm 8 hour(s).

CA Quebec Provincial (Canada, 12/2006).

STEV: 651 mg/m³ 15 minute(s).

STEV: 150 ppm 15 minute(s).

TWAEV: 434 mg/m³ 8 hour(s).

TWAEV: 100 ppm 8 hour(s).

ACGIH TLV (United States, 1/2007).

STEL: 651 mg/m³ 15 minute(s).

STEL: 150 ppm 15 minute(s).

TWA: 434 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

ethylbenzene

CA Alberta Provincial (Canada, 10/2006).

15 min OEL: 543 mg/m³ 15 minute(s).

15 min OEL: 125 ppm 15 minute(s).

8 hrs OEL: 434 mg/m³ 8 hour(s).

8 hrs OEL: 100 ppm 8 hour(s).

CA British Columbia Provincial (Canada, 7/2007).

STEL: 125 ppm 15 minute(s).

TWA: 100 ppm 8 hour(s).

CA Ontario Provincial (Canada, 3/2007).

STEV: 540 mg/m³ 15 minute(s).

STEV: 125 ppm 15 minute(s).

TWAEV: 435 mg/m³ 8 hour(s).

TWAEV: 100 ppm 8 hour(s).

CA Quebec Provincial (Canada, 12/2006).

STEV: 543 mg/m³ 15 minute(s).

STEV: 125 ppm 15 minute(s).

TWAEV: 434 mg/m³ 8 hour(s).

TWAEV: 100 ppm 8 hour(s).

ACGIH TLV (United States, 1/2007).

STEL: 125 ppm 15 minute(s).

TWA: 100 ppm 8 hour(s).

Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Colour	: Amber. [Light]
Odour	: Hydrocarbon.
pH	: Not determined.
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Relative density	: 0.88
Vapour pressure	: Not available.
Vapour density	: Not available.
Odour threshold	: Not available.
Evaporation rate	: Not available.
LogK _{ow}	: Not available.

Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions of instability	: Not available.
Reactivity	: Slightly reactive or incompatible with the following materials: acids, alkalis and moisture.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerisation	: Under normal conditions of storage and use, hazardous polymerisation will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Moderately irritating to eyes.
Skin	: Moderately irritating to the skin.
Inhalation	: Moderately irritating to the respiratory system. High vapour concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.
Ingestion	: May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Ingestion may cause nausea, weakness and central nervous system effects.

Potential chronic health effects

Carcinogenic effects	: Hazardous by WHMIS criteria.
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<u>Ingredient name</u>	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
ethylbenzene	A3	2B	-	-

Mutagenic effects	: No known significant effects or critical hazards.
Teratogenic effects	: No known significant effects or critical hazards.
Reproductive effects	: Hazardous by WHMIS criteria.
Sensitization to Product	: No known significant effects or critical hazards.
Synergistic products (toxicologically)	: Not available.

Toxicity data

<u>Ingredient name</u>	<u>Test</u>	<u>Route</u>	<u>Result</u>	<u>Species</u>
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octamethylcyclotetrasiloxane	LD50	Dermal	1770 mg/kg	Rat
	LD50	Dermal	794 uL/kg	Rabbit
	LD50	Oral	1540 mg/kg	Rat
xylene	LD50	Dermal	>1700 mg/kg	Rabbit
	LD50	Oral	4300 mg/kg	Rat
ethylbenzene	LD50	Dermal	>5000 mg/kg	Rabbit
	LD50	Dermal	17800 uL/kg	Rabbit
	LD50	Oral	3500 mg/kg	Rat

Target organs : Contains material which may cause damage to the following organs: blood, kidneys, the reproductive system, liver, gastrointestinal tract, skin, central nervous system (CNS), eye, lens or cornea.

Section 12. Ecological information

Ecotoxicity

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
distillates (petroleum), hydrotreated light	Fish	96 hours	Acute LC50 2.9 mg/L
octamethylcyclotetrasiloxane	Fish	96 hours	Acute LC50 >500 mg/L
	Fish	96 hours	Acute LC50 13.4 mg/L
	Fish	96 hours	Acute LC50 13.3 mg/L
	Fish	96 hours	Acute LC50 12 mg/L
	Fish	96 hours	Acute LC50 8.6 mg/L
	Fish	96 hours	Acute LC50 8.2 mg/L
ethylbenzene	Fish	96 hours	Acute LC50 3.3 mg/L
	Algae	48 hours	Acute EC50 7.2 mg/L
	Daphnia	48 hours	Acute EC50 2.97 mg/L
	Daphnia	48 hours	Acute EC50 2.93 mg/L
	Fish	96 hours	Acute LC50 4.2 mg/L
	Fish	96 hours	Acute LC50 9.09 mg/L
	Fish	96 hours	Acute LC50 9.6 mg/L

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

UN Classification

UN number

Proper shipping name

Class

Packing group

Additional information

See shipping documents for specific transportation information.

Section 15. Regulatory information

WHMIS : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

Section 16. Other information

Date of issue : 19-August-2008.
Responsible name : Regulatory Affairs
1-800-352-5326
Date of previous issue : 04-May-2007.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.