

US-VC

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Identification of the substance or mixture

Product Name: US-VC
Product Use: Valve cleaner
Supplier: U.S. Valve Services and Training
11875 W. Little York Rd.
Houston, TX 77041 USA
713-896-1300

Emergency telephone number: 800-270-8250, 24 hours

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity, inhalation (category 4)
Chronic aquatic toxicity (category 2)

GHS label elements

Symbol(s)



Signal Word

Warning

Hazard statements

H332 – Harmful if inhaled.
H411 – Toxic to aquatic life with long lasting effects.

Precautionary statements

P271 – Use only outdoors or in a well-ventilated area.
P273 – Avoid release to the environment.
P304 + P340 – IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312 – Call a POISON CENTER or doctor if you feel unwell.

Other hazards which do not result in classification

High pressure injection under skin is a medical emergency.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	Concentration
Chlorotoluene (mixture of isomers) CAS-No. 25168-05-2 EC-No. 246-698-2 Index-No. 602-040-00-X Isomer content in product:	45-50%
2-Chlorotoluene (CAS-No. 95-49-8, EC-No. 202-424-3)	35-50%
4-Chlorotoluene (CAS-No. 106-43-4, EC-No. 203-397-0)	0-15%

4. FIRST AID MEASURES

- General:** If exposed or concerned, get medical attention or advice and show this safety data sheet to doctor in attendance.
- Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 5 minutes, keeping eyelids open. Get medical attention if redness or irritation persists.
- Skin contact:** Remove contaminated clothing and shoes. Wash skin with soap and water. Get medical attention if irritation symptoms occur. High pressure injection under skin is a medical emergency.
- Inhalation:** Move exposed person to fresh air. If breathing is irregular or stopped, give artificial respiration. Get medical attention if irritation develops and persists.
- Ingestion:** Do not induce vomiting and give large quantities of water. Get medical attention.

Special treatment:

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- General hazards:** Material will burn if heated. May produce toxic gases.
- Suitable media:** Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable:** Do not use water jet.
- Combustion products:** Carbon monoxide, carbon dioxide, phosgene, chlorine, hydrogen chloride.
- Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Wear appropriate personal protection equipment (see section 8).
- Environmental precautions:** Keep away from sources of ignition. Recover free product. Use suitable oil adsorbent and dispose of material in accordance with all

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regulations. Keep product out of sewers and watercourses, prevent soil penetration. Advise authorities if large amounts of product enter waterways or extensive land areas.

7. HANDLING AND STORAGE

Handling: Wear appropriate personal protection equipment (see section 8). Do not eat, drink or smoke when using. Wash thoroughly after handling. Follow good hygiene and housekeeping practices.

Storage: Keep away from sources of ignition. Store in cool dry area in original or equivalent container in accordance with all regulations. Do not expose to extreme heat or flame. Store below 65°C, away from strong oxidizers and acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Chemical name	CAS no.	OSHA PEL	ACGIH TWA
Chlorotoluene (mixture of isomers)	872-50-4	50 ppm	50 ppm
2-Chlorotoluene	95-49-8	50 ppm	not established
4-Chlorotoluene	106-43-4	not established	not established

Engineering controls: Use with adequate ventilation.

Eye/face protection: Safety glasses. Ensure eye bath is to hand.

Hand protection: Solvent resistant gloves if prolonged or repeated contact is unavoidable.

Skin protection: No additional protection required beyond normal industrial attire is required.

Respiratory protection: No special measures required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor: Black viscous liquid, solvent odor

pH: No data

Flash point: >61°C (142°C) (Cleveland open cup)

Evaporation rate: No data

Upper flammability limit: Not applicable

Lower flammability limit: Not applicable

Vapor pressure: No data

Vapor density: No data

Relative density: 1.1

Solubility: Insoluble in water, soluble in alcohols and hydrocarbons

Viscosity: Cone penetration 340-360

10. STABILITY AND REACTIVITY

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Chemical stability:	Stable
Conditions to avoid:	Extreme heat, open flames, welding arcs, resistance heaters
Incompatible materials:	Strong oxidizers, acids, alkalis
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, phosgene, chlorine, hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Information on Chlorotoluene (mixture of isomers):

Acute toxicity:

Ingestion:	LD50: 3600 mg/kg (rat)
Inhalation:	LC50: >34 g/m ³ (2 hour) (mouse)

Information on product:

Eye irritation:	May cause redness, tearing.
Skin irritation/corrosivity:	Prolonged or repeated skin contact may remove oils from skin resulting in drying or redness. May cause dermatitis in individuals with pre-existing skin disorders.

Potential chronic health effects

Information on product

Sensitization:	No ingredients known to be sensitizers
Repeated dose toxicity:	Repeated exposure may cause drying of skin from loss of skin oils
Carcinogenicity:	No ingredients listed as carcinogens
Germ cell mutagenicity:	No ingredients known to have mutagenic effects
Reproductive toxicity:	No ingredients known to have reproductive effects
STOT repeated exposure:	No known target organ effect from repeated exposure

12. ECOLOGICAL INFORMATION

Ecotoxicity: 2-Chlorotoluene:

Toxicity to fish:	LC0 – Leuciscus idus (golden orfe) – 11 mg/l – 48 h LC50 – other fish – 7.8 mg/l – 96 h
Toxicity to daphnia and other aquatic invertebrates:	EC50 – Daphnia magna (water flea) – 20 mg/l – 24 h

Persistence/degradability:	No data available
Bioaccumulation:	No data available
Mobility:	No information available
Results of PBT assessment:	No information available
Other adverse effects:	Chlorotoluene is listed as a Marine Pollutant by IMDG

13. DISPOSAL CONSIDERATIONS

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Waste disposal: Generation of waste should be avoided or minimized where possible. Empty containers may contain residue. Dispose of as hazardous waste via licensed waste disposal operator. Follow all applicable regulations.

14. TRANSPORT INFORMATION

DOT (US): UN3077, Environmentally hazardous substance, solid, n.o.s. (chlorotoluenes), Class 9, PGIII. RQ: 100 lbs. Marine pollutant: yes.

IMDG: UN3077, Environmentally hazardous substance, solid, n.o.s. (chlorotoluenes), Class 9, PGIII. Marine pollutant: yes.

IATA: UN3077, Environmentally hazardous substance, solid, n.o.s. (chlorotoluenes), Class 9, PGIII.

15. REGULATORY INFORMATION

US Regulations

No ingredient in this product is subject to the reporting requirements of SARA Section 302 (40 CFR 355 Appendix A) or CERCLA (40 CFR 302.4)

SARA 313 Components: none.

State Regulations

California Prop 65: No ingredients listed.

Massachusetts Right to Know: 2-Chlorotoluene, CAS no. 95-49-8

New Jersey Right to Know: 2-Chlorotoluene, CAS no. 95-49-8

Pennsylvania RTK Hazardous Substances: 2-Chlorotoluene, CAS no. 95-49-8

United States inventory (TSCA): All ingredients listed or exempt.

International regulations

Canada: WHMIS Classification: Not controlled. **WHMIS:** This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. **Canada Domestic Substances List:** All ingredients listed or exempt.

16. OTHER INFORMATION

Hazardous Material Information System (USA):

HEALTH	1
FIRE	2
REACTIVITY	0
PERSONAL PROTECTION	B

National Fire Protection Association (USA):



Revision information: Original GHS issue.

END OF SAFETY DATA SHEET