

DSI-VF Penetrant / Cleaner Valve Flush Safety Data Sheet

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

Identification of the substance or mixture

Product Name: DSI-VF
Product Use: Valve Cleaner
Supplier: ACC Corporate
4 Roy Street, Welshpool
Perth, Western Australia, 6106
Emergency Telephone Number: +61 (08) 9470 5070
Refer to code DSI-VF

Email Address: admin@acc-corporate.com

2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2)
Reproductive toxicity (Category 1B)
Specific target organ systemic toxicity – single exposure (Category 3)

GHS Label elements

Symbol(s)



Signal Word

Danger

Hazard statements

H315 – Causes skin irritation
H319 – Causes serious eye irritation
H335 – May cause respiratory irritation
H360D – May damage the unborn child

Precautionary statements

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray
P280 – Wear protective gloves/protective clothing/eye protection/face protection
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water
P304 + P340 – IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

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P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308 + P313 – If exposed or concerned: Get medical advice/attention

Other hazards which do not result in classification

High pressure injection under skin is a medical emergency.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Nonhazardous components.

Component	Concentration
N-methyl-2- pyrrolidone* CAS-No. 872-50-4 EC-No. 212-828-1 Index-No. 606-021-00-7	45-50%
*Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)	

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

Suitable media:	Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable:	Do not use water jet.
Combustion products:	Carbon monoxide, carbon dioxide, products of incomplete hydrocarbon combustion, nitrogen oxides (NOx).

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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: Recover free product. Use suitable oil adsorbent and dispose of material in accordance with all 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: 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 (150°F), away from strong oxidizers and acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Chemical name	CAS no.	USA WEELs TWA
N-methyl-2-pyrrolidone	872-50-4	10 ppm (skin)

Engineering controls: Use with adequate ventilation.

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

Hand protection: Protective 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 odour: Black viscous liquid, solvent odour

pH: No Data

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Flash point:	>200°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:	1.0
Solubility:	Partially soluble in water, soluble in alcohols
Viscosity:	cone penetration 300 - 330
Appearance and odour:	Black viscous liquid, solvent odor

10. STABILITY AND REACTIVITY

Chemical stability:	Stable
Conditions to avoid:	Extreme heat
Incompatible materials:	Strong oxidizers
Hazardous decomposition products:	Various hydrocarbons, carbon monoxide, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Information on N-methyl-2-pyrrolidone

Acute toxicity:	
Ingestion:	LD50: 4150 mg/kg (rat)
Skin contact:	LD50: >5000 mg/kg (rat)
Inhalation:	LC50: >5.1 mg/L (4 hour) (rat)
Eye irritation:	Causes serious eye irritation
Skin irritation/corrosivity:	Causes skin irritation. Prolonged or repeated skin contact may remove oils from skin resulting in drying, redness or dermatitis

Potential chronic health effect

Information on product

Sensitization:	Not a sensitizer
Repeated dose toxicity:	Repeated exposure may cause drying of skin from loss of skin oils
Carcinogenicity:	No ingredients listed as carcinogens
Mutagenicity:	Not mutagenic
Reproductive toxicity:	May damage the unborn child
STOT repeated exposure:	No known target organ effect from repeated exposure

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12. ECOLOGICAL INFORMATION

Ecotoxicity:

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia
N-methyl-2-pyrrolidone	Scenedesmus subspicatus, 72h, EC50: 125 mg/L	Oncorhynchus mykiss, 96h, LC50: >500 mg/L	Daphnia magna, 24h, EC50: >1000 mg/L

Persistence/degradability: Readily biodegradable
Bioaccumulation: Not expected to bioaccumulate
Mobility: No information available
Results of PBT assessment: Not considered to be persistent, bioaccumulating or toxic (PBT). Not considered to be very persistent or very bioaccumulating (vPvB)
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT (US): Not regulated
IMDG: Not regulated
IATA: Not regulated

15. US Regulations

No ingredient in this product is subject to the reporting requirements of SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4).

SARA 313 Components: N-methyl-2-pyrrolidone, CAS no. 872-50-4

State Regulations

California Prop 65: N-methyl-2-pyrrolidone, CAS no. 872-50-4 (birth defects and reproductive harm)

Massachusetts Right to Know: N-methyl-2-pyrrolidone, CAS no. 872-50-4

New Jersey Right to Know: N-methyl-2-pyrrolidone, CAS no. 872-50-4

Pennsylvania RTK Hazardous Substances: N-methyl-2-pyrrolidone, CAS no. 872-50-4

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

International regulations

Canada: WHMIS Classification: D2A (reproductive toxicity, teratogenicity).

16. OTHER INFORMATION

Hazardous Material Information System (USA):

HEALTH	2*
FIRE	2
REACTIVITY	0
PERSONAL PROTECTION	B

National Fire Protection Association (USA)



Revision information: Original GHS issue 30 Nov 2016. Rev 1: reviewed with no changes. Rev 2: reviewed with no changes. Rev 3: flash point corrected in Section 9. Rev 4: reviewed with no changes. Rev 5: revised reproductive toxicity in Sections 2 and 11.

For Industrial Use Only

END OF SAFETY DATA SHEET