

SAFETY DATA SHEET

1 Identification of the substance or preparation and of the company/undertaking

Product Name: DEVELOPER SKD-S2
Datasheet Number: 653568 9. 0. 0
Use of the substance/preparation: Welding accessories
Product Part Number: 653568 (10 x 400 ml)
Name of Supplier: Wilhelmsen Ships Service AS
Address of Supplier: Willem Barentszstraat 50
 3165 AB Rotterdam-Albrandswaard, The Netherlands

Telephone: +31 10 4877 777
Fax: +31 10 4877 888
Responsible Person: Patrick.Rijsdijk, Product HSE Manager, Tel.: +31 6 349 44035
Email: Patrick.Rijsdijk@Wilhelmsen.com
Name of Manufacturer: Wilhelmsen Ships Service AS
Address of Manufacturer: Strandveien 20
 P.O.Box 33
 NO-1324 LYSAKER
 Norway
Telephone: +47 67 584550
Emergency Telephone: NCEC: +44 1865 407333, CHEMTREC (800) 424 9300
 American Chemistry Council +1 703 527 3887, Greece +30 210 7793777

2 Hazards identification

- Odour: Alcohol odour
- Appearance: Aerosol
- Contact with eyes: May cause irritation
- Contact with skin: Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis
- Inhalation: Vapours or aerosols may cause irritation of eyes, nose and respiratory tract, In cases of severe exposure, dizziness, confusion, headache or stupor may develop
- Ingestion: Not regarded as a potential route of exposure.



Extremely Flammable



Irritant

3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Acetone	<15	67-64-1	200-662-2	11, 36, 66, 67	F, Xi
Propan-2-ol	<40	67-63-0	200-661-7	11, 36	F, Xi
Butane	<40	106-97-8	203-448-7	12	F+

*See Section 16

4 First aid measures

Contact with skin

- After contact with skin, wash immediately with plenty of soap and water (S28)
- Contaminated clothing should be laundered before reuse

Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Seek medical advice

Ingestion

- Not regarded as a potential route of exposure.

Inhalation

- Remove patient to fresh air
- Obtain immediate medical attention

4 First aid measures (....)

General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

Notes to Physicians

Do not give adrenalin or equivalent medicines.

5 Fire-fighting measures

- Lower flammability limit 2%(in air), Upper flammability limit 15%(in air)
- Portable containers should be moved if possible and without risk
- Keep container(s) exposed to fire cool, by spraying with water
- Inform Fire Brigade of potential danger of exploding and rocketing cylinders
- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide (S43)
- Substance evolves toxic fumes, wear self-contained breathing apparatus

6 Accidental release measures

Personal Precautions

- Shut off all ignition sources
- Wear suitable respiratory protection

Environmental Precautions

- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback

Clean Up Actions

- Shut off source of leak if safe to do so
- Absorb spillage in suitable inert material
- Ventilate the area and wash spill site after material pick-up is complete

7 Handling and storage

Handling

- Restricted to professional users
- Ensure adequate ventilation
- Keep away from heat and sources of ignition

Storage

- Keep in a cool, dry, well ventilated place
- Keep away from open flames, hot surfaces and sources of ignition.
- Recommended storage temperature between 10 and 30 °C

8 Exposure controls and personal protection

Exposure Limits

- TLV (TWA) 1430 mg/m³ (Butane)
- TLV (TWA) 1210 mg/m³ (Acetone)
- TLV (TWA) 999 mg/m³ (Propan-2-ol)

Exposure controls

- The undiluted product must not be used in a confined space without good ventilation

Occupational exposure controls

- Wear approved respirator if exposure likely to exceed TLV
- Wear suitable protective clothing, including eye/face protection and gloves (neoprene or nitrile are recommended)



Visor



Gloves



Suit



No Smoking

9 Physical and chemical properties

- Odour: Alcohol odour
- Appearance: Aerosol
- pH - not applicable
- Boiling point 75 °C at 760 mm /Hg
- Vapour pressure 138 mm Hg at 38 deg C
- Vapour density (air = 1) >1
- Water solubility 870 g/l
- Specific gravity 0.88 g/cm³
- Lower flammability limit 2%(in air), Upper flammability limit 15%(in air)

9 Physical and chemical properties (....)

- Evaporation rate (Butyl acetate = 1) 2.5

10 Stability and reactivity

- This article is considered stable under normal conditions
- Avoid overheating

11 Toxicological information

Toxicological information

- No experimental data available

Inhalation

- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
- In cases of severe exposure, dizziness, confusion, headache or stupor may develop

Contact with skin

- Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis

Contact with eyes

- In cases of severe exposure, irritation may develop

Ingestion

- Not regarded as a potential route of exposure.

Carcinogenicity

- No evidence of carcinogenic effects

12 Ecological information

Ecotoxicity

- On available data, substance is not harmful to aquatic life

Mobility

- This substance is volatile
- Water solubility 870 g/l

Persistence and Biodegradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

Bioaccumulation Potential

- Low bioaccumulation potential

Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly.

13 Disposal considerations

Classification

- This material and/or its container must be disposed of as hazardous waste

Disposal considerations

- Disposal should be in accordance with local, state or national legislation
- Do not pierce or burn container, even after use

14 Transport information

Flammable gas

Proper Shipping Name: Aerosol cans. Aerosols, flammable, n.o.s

UN

Proper Shipping Name:	Aerosol cans. Aerosols, flammable, n.o.s		
UN No.:	1950		
Hazard Class:	2.1	Packing Group:	N/A
Road/Rail (ADR/RID)			
Proper Shipping Name:	Aerosols, flammable		
ADR UN No.:	1950		
ADR Hazard Class:	2.1	ADR Classification Code:	5A
ADR Packing Group:	N/A	Tremcard:	20G1A
ADR subrisk:	N/A	ADR Flashpoint:	N/A

14 Transport information (....)

Sea (IMDG)

Proper Shipping Name:	Aerosols, flammable		
IMDG UN No.:	1950		
IMDG Hazard Class.:	2.1	IMDG Pack Group.:	N/A
IMDG EmS:	F-D, S-U	IMDG subrisk:	N/A
IMDG Labels:	2.1	IMDG Flashpoint:	N/A

Air (ICAO/IATA)

Proper Shipping Name:	Forbidden	ICAO Un No.:	-
ICAO Hazard Class.:	-	ICAO Packing Group.:	-
ICAO subrisk:	-	ICAO Labels:	-
ICAO Flashpoint:	-		

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Aerosols, flammable, n.o.s		
Hazardous Material:	Acetone, Isopropanol, Butane		
Hazard Class:	2.1	Identification Number:	UN1950
Product RQ (lbs):	N/A	DOT subrisk:	N/A
DOT Labels:	2.1	DOT Flashpoint:	N/A

- Gas cylinders must be equipped with valve protection caps during transport.

15 Regulatory information

Extremely Flammable



Irritant

Risk Phrases

- Extremely Flammable (R12)
- Vapours may cause drowsiness and dizziness (R67)
- Irritating to eyes (R36)

Safety Phrases

- Keep out of reach of children (S2)
- Keep away from sources of ignition - No Smoking (S16)
- Do not breathe spray/mists (S23)
- Avoid contact with eyes (S25)
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- Use only in well ventilated areas (S51)

16 Other information

Text of R and S phrase codes used in this safety data sheet:- R11: Highly Flammable; R12: Extremely Flammable; R36: Irritating to eyes; R66: Repeated exposure may cause skin dryness or cracking; R67: Vapours may cause drowsiness and dizziness.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)