

#### SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: DEVELOPER SKD S2

Datasheet Number: 653568-r 3. 0. 0

Product Part Number: 653568 (10 x 400 ml)

Head Office:: Wilhelmsen Ships Service AS

Address: Strandveien 20 N1324 Lysaker, Norway, Tel: (+47) 67 58 45 50

1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Welding accessories

1.3 Details of the supplier of the safety data sheet

Name of Supplier: For quotations contact your local Customer Services

Address of Supplier: Wilhelmsen Ships Service AS

Willem Barentszstraat 50 3165AB Rotterdam The Netherlands

Telephone: +31 10 4877 777 Fax: +31 10 4877 888

Responsible Person: , Product HSE Manager, Tel.: +31 10 4877775 Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com

1.4 Emergency telephone number

-ONLY TO BE USED IN CASE OF AN INCIDENT-NCEC: +44 1865 407333, CHEMTREC (800) 424 9300

American Chemistry Council +1 703 527 3887,

Greece +30 210 7793777 Australia: +61 3 9630 0998

Giftinformasjonsentralen in Norway Tel.: +47 22591300

# 2 Hazards identification

#### 2.1 Classification of the substance or mixture

- Counsil Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

#### 2.2 Label elements







Irritan

#### Risk Phrases

- Extremely Flammable (R12)
- Irritating to eyes (R36)

# 2 Hazards identification (....)

- Vapours may cause drowsiness and dizziness (R67)

### Safety Phrases

- 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)

### 2.3 Other hazards

- Odour: Alcohol odour
- Appearance: Aerosol
- 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

# 3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R/H 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

- 4.1 Description of first aid measures
  - IF ON SKIN: Wash with plenty of soap and water.
  - When in doubt or symptoms persist, seek medical attention
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - If eye irritation persists: Get medical advice/attention.
  - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
  - Get medical advice/attention if you feel unwell.
- 4.2 Most important symptoms and effects, both acute and delayed
  - Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
- 4.3 Indication of immediate medical attention and special treatment needed

Do not give andrenalin or equivalent medicines.

# 5 Fire-fighting measures

# 5 Fire-fighting measures (....)

- 5.1 Extinguishing media
  - In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide (S43)
- 5.2 Special hazards arising from the substance or mixture
  - Inform Fire Brigade of potential danger of exploding and rocketing cylinders
  - Smoke from fires is toxic
- 5.3 Advice for firefighters
  - Keep container(s) exposed to fire cool, by spraying with water
  - Inform Fire Brigade of potential danger of exploding and rocketing cylinders
  - Substance evolves toxic fumes, wear self-contained breathing apparatus

#### 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  - Shut off all ignition sources
  - Wear suitable respiratory protection
- 6.2 Environmental Precautions
  - Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
- 6.3 Methods and material for containment and cleaning up
  - 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
- 6.4 Reference to other sections

# 7 Handling and storage

- 7.1 Precautions for safe handling
  - Restricted to professional users
  - Ensure adequate ventilation
  - Keep away from heat and sources of ignition
- 7.2 Conditions for safe storage, including any incompatibilities
  - 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
- 7.3 Specific end use(s)

# 8 Exposure controls/personal protection

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

# 8 Exposure controls/personal protection (....)

### 8.2 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)









# 9 Physical and chemical properties

- 9.1 Information on basic 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)
  - Evaporation rate (Butyl acetate = 1) 2.5

### 9.2 Other information

- None

# 10 Stability and reactivity

#### 10.1 Reactivity

- This article is considered stable under normal conditions

### 10.2 Chemical stability

- Considered stable under normal conditions
- 10.3 Possibility of hazardous reactions
  - May form explosive vapour/air mixtures

#### 10.4 Conditions to avoid

- Avoid overheating
- 10.5 Incompatible materials
  - None

#### 10.6 Hazardous Decomposition Products

- No hazardous decomposition products known

# 11 Toxicological information

#### 11.1 Information on toxicological effects

- 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

#### 12.1 Toxicity

- On available data, substance is not harmful to aquatic life
- 12.2 Persistence and degradability
  - Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

#### 12.3 Bioaccumulation Potential

- Low bioaccumulation potential

#### 12.4 Mobility in soil

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

#### 12.5 Results of PBT and vPvB assessment

### 12.6 Other Adverse Effects

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

### 13 Disposal considerations

### 13.1 Waste treatment methods

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

#### Classification

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

# 14 Transport information



- 14.1 UN Number
  - UN1950
- 14.2 UN Proper Shipping Name
  - Aerosols
- 14.3 Transport hazard class(es)
  - 2.1
- 14.4 Packing group
  - N/A
- 14.5 Environmental hazards
  - On available data, substance is not harmful to the environment
- 14.6 Special precautions for user
  - No special precautions are required for this product
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
  - Not applicable

### Other information

## Road/Rail (ADR/RID)

Proper Shipping Name: Aerosols

ADR UN No.: UN1950 ADR Hazard Class: 2.1 ADR Packing Group: - ADR subrisk: -

ADR Flashpoint: -

Sea (IMDG)

Proper Shipping Name: Aerosols

IMDG UN No.: UN1950 IMDG Hazard Class.: 2.1

IMDG Pack Group.: - IMDG EmS: F-D, S-U

IMDG subrisk: - IMDG Flashpoint: -

Air (ICAO/IATA)

Proper Shipping Name: Aerosols

ICAO Un No.: UN1950 ICAO Hazard Class.: 2.1 ICAO Packing Group.: - ICAO subrisk: -

ICAO Flashpoint:

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name: Aerosols Hazardous Material: UN1950

Hazard Class: 2.1 Identification Number: Acetone, Isopropanol, Butane

Product RQ (lbs): - DOT subrisk: -

DOT Flashpoint:

## 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
  - This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
  - Counsil Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- 15.2 Chemical Safety Assessment

None

#### 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

The most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipsservice

#### OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

For addresses of other Wilhelmsen Ships Service offices, please refer to www.wilhelmsen.com/shipsservice

Wilhelmsen Ships Service Level 1, 39 Park Street South Melbourn, Vic 3205 Australian Tel:+61 3 9630 0900 Emergency 24hrs: +61 3 9630 0998

Wilhelmsen Ships Service INC 210 Edgewater Street US-10305 Staten Island New York United States Telephone daytime: (+1) 718 815 1310 Fax: (+1) 718 233 3268

Wilhelmsen Ships Service INC 2200 W. Pacific Coast Highway US-90810 Long Beach California, United States Tel (+1) 562 624 8888 Fax (+1) 562 624 1011

Wilhelmsen Ships Service INC 701 Ashland Ave. Ashland Center Two, Bay 12 US- 19032 Folcroft Pennsylvania United States Tel (+1) 610 586 7801 Fax (+1) 215 701 0646

Wilhelmsen Ships Service INC. 9400 New Century Drive US-77507 Pasadena Texas United States Telephone daytime: (+1) 281 867 2000 Fax: (+1) 281 867 2800

Wilhelmsen Ships Service Ltd. Unit 3A NewtonsCourt Crossways DA2 6QL Dartford, Kent United Kingdom Tel (+44) 1322 282 412 Fax (+44) 1322 284 774

Wilhelmsen Ships Service Ltda Rua Bispo Lacerda nos.61/67 Del Catilho BR 21051120 Rio de Janeiro Brazil Tel (+55) 21 25 82 8000 Fax (+55) 21 25 82 8001

Wilhelmsen Ships Service (S) Pte Ltd 186 Pandan Loop Singapore 128376 Tel (+65) 6395 4545

Wilhelmsen Ships Service Hellas SA 100, D. Moutsopoulou & Serifou str GR-185 41 Piraeus Greece Tel (+ 30) 210 4239100 Fax (+ 30) 210 4212480

WMS AS U.A.E. Fl 24 Executive Heights, Tecom C Sheikh Zayed Road (East) Dubai United Arab Emirates Tel (+971) 4 382 3888

