
SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Name of product INTERDES F

1.2. Relevant identified uses of the substance or mixture and uses advised against**Recommended intended purpose(s)**

disinfectant cleaner / disinfectant cleaner concentrate

1.3. Details of the supplier of the safety data sheet**Manufacturer/distributor**Hysolv Ltd.
53 Lethbridge Road, GB- BA5 2FW Wells, Somerset
Phone 0771 707 7781 or 0786 780 7330
E-Mail info@hysolv.com
Internet www.hysolv.com**1.4. Emergency telephone number****Emergency advice**for healthcare professionals: www.toxbase.org
Members of the public should contact their general practitioner or telephone NHS 111(England), NHS 24 (Scotland) or NHS Direct (Wales).

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Met. Corr. 1	H290	
Skin Irrit. 2	H315	
Eye Dam. 1	H318	
Aquatic Acute 1	H400	
Aquatic Chronic 2	H411	

Hazard Statements

H290	May be corrosive to metals.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**

GHS05



GHS09

Signal word

Danger

Hazard Statements

H290 May be corrosive to metals.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read carefully and follow all instructions.
 P264 Nach Gebrauch Haut gründlich waschen.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor/...
 P391 Collect spillage.

2.3. Other hazards
Results of PBT and vPvB assessment

This substance / mixture does not contain components in concentrations of 0.1% or higher, which are classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/ information on ingredients
3.1. Substances

not applicable

3.2. Mixtures
Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
2372-82-9	219-145-8	N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin	>= 5 < 9	Acute Tox.3, H301 / Skin Corr. 1B, H314 / STOT RE 2, H373 / Aquatic Acute 1, H400 M=10 / Aquatic Chronic 1, H410 M=1 / Eye Dam. 1, H318
79-33-4	201-196-2	L-(+)-lactic acid	>= 1 < 3	Skin Irrit. 2, H315 / Eye Dam. 1, H318
68891-38-3	500-234-8	alkyl ether sulfate	>= 1 < 2,5	Skin Corr./Irrit. 2, H315 / Eye Dam./ Irrit. 1, H318 / Aquatic Chronic 3, H412
69011-36-5	931-138-8	ethoxylated isotridecanol	>= 3 < 5	Acute Tox.4, H302 / Eye Dam. 1, H318
5538-95-4	226-902-6	N-Dodecylpropan-1,3-diamin	>= 0,5 < 1	Acute Tox. 4, H302 / Skin Corr. 1A, H314 / Eye dam. 1, H318 / Aquatic Acute 1, H400
124-22-1	204-690-6	Dodecylamin	>= 0, 025 < 0,1	Skin Corr. 1B, H314 / STOT SE 3, H335 / STOT RE 2, H373 / Asp. Tox.1, H304 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

REACH

CAS No	Name	REACH registration number
68891-38-3	alkyl ether sulfate	01-2119488639-16

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Adhere to personal protective measures when giving first aid.

In case of inhalation

In case of difficulty in breathing: supply oxygen, seek medical advice.

In case of irregular breathing or if breathing stops provide artificial respiration.

Ensure of fresh air.

Keep respiratory tract unobstructed.

In case of unconsciousness put casualty in lateral position and seek for medical advice.

In case of skin contact

In case of skin contact wash off immediately with plenty of water and soap.

Bei Auftreten von Hautreizungen oder allergischen Reaktionen einen Arzt hinzuziehen.

Take off contaminated, soaked clothing immediately.

In case of eye contact

Keep eye wide open while rinsing.

Unverletztes Auge schützen.

Remove contact lenses if possible.

Call for a doctor immediately.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Während des Transportes zum Krankenhaus Augen weiter ausspülen.

In case of ingestion

Do not induce vomiting.

Call for a doctor immediately.

Do not administer anything to unconscious persons.

Rinse out mouth and give plenty of water to drink.

4.2. Most important symptoms and effects, both acute and delayed**Physician's information / possible dangers**

Kleine Spritzer in die Augen können irreversible Gewebeschäden und Blindheit verursachen.

4.3. Indication of any immediate medical attention and special treatment needed**Treatment (Advice to doctor)**

Treat symptoms.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam

Dry fire-extinguishing substance

water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of heating or fire formation of toxic gas possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

Use personal protective equipment.

In case of fire: wear independent breathing apparatus.

Additional information

Cool endangered containers with water spray jet.

Extinguishing water may not get into drainage system, subsoil or waters.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Use breathing protection to avoid the effect of vapors.

For emergency responders

Use personal protective equipment.

Atenschutzgerät verwenden, wenn bei Arbeiten Kontakt mit Produktdämpfen möglich ist.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

Don't let the product enter surface waters or sewers.

6.3. Methods and material for containment and cleaning up

Dam spilled material with non-combustible absorbent material (e. g. sand, soil, kieselguhr, Vermiculite) and collect in suitable containers for disposal according to local rules (see chapter 13).

Mit Säure neutralisieren.

6.4. Reference to other sections

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Rinsing water has to be disposed of according to local and national official regulations.

Dämpfe, Staub nicht einatmen.

Provide sufficient air exchange and/or exhaust in work rooms.

Avoid contact with skin and eyes.

Do not eat, drink or smoke when handling the product.

Hygiene measures

Avoid contact with skin, eyes and clothes.

Take off contaminated and soaked clothing immediately and wash before wearing again.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Elektrische Einrichtungen / Betriebsmittel müssen dem Stand der Sicherheitstechnik entsprechen.

Behälter an einem gut gelüfteten Ort aufbewahren.

Keep opened containers carefully closed and store in upright position to avoid leakage.

Behälter dicht geschlossen halten.

Zur Wahrung der Produktqualität, fern von Hitze und direkter Sonneneinstrahlung lagern.

Advice on storage compatibility

Do not store with acids.

Further information on storage conditions

Protect from frost.

Transport and store in upright position.

Information on storage stability

No decomposition if stored and applied as directed.

Storage group 8B

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice**

Does not contain any substances with occupational exposure limit values.

8.2. Exposure controls**Respiratory protection**

In case of development of vapours use breathing protection with qualified filter type. Breathing protection with vapour filter EN 141 filter-equipment with ABEK-filter.

Hand protection

Permeation time (penetration time) in minutes: > 480

Die einzusetzenden Schutzhandschuhe müssen den Spezifikationen der EG-Richtlinie 89/686/EWG und der sich daraus ergebenden Norm EN 374 genügen.

Suitable: Gloves of nitrile-butadiene rubber

Wear protective gloves.

Eye protection

Safety glasses with side-shields conforming to EN 166.

Bei Verarbeitungsschwierigkeiten Gesichtsschild und Schutzanzug tragen.

Other protection measures

Impermeable protective clothing

Choose the protective equipment based on quantity and concentration of the hazardous substances used at the work place.

Limitation and surveillance of the environment

Don't let the product enter surface waters or sewers.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties
Appearance

liquid

Colour

light yellow

Odour

like amine

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	10	20 °C			
boiling point	ca. 100 °C				
Melting point / Freezing point	not determined				
Flash point					not applicable
Vapourisation rate					no data available
Flammable (solid)					no data available
Flammability (gas)					no data available
Ignition temperature	not determined				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit					No data available.
Upper explosion limit					No data available.
Vapour pressure	23 hPa	20 °C			
Relative density					no data available
Vapour density					not determined
Solubility in water	not determined				
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)					no data available

	Value	Temperature	at	Method	Remark
Decomposition temperature					no data available
Viscosity dynamic	5 mPa*s	23 °C			
Viscosity kinematic	6,92 mm2/s	40 °C		OECD-Prüfrichtlinie 114	

Oxidising properties
no data available

Explosive properties
non-explosive

9.2. Other information

Oberflächenspannung: 31,5 mN/m, 10% v/v, 20°C, OECD-Prüfrichtlinie 115, GLP: ja
 Metallkorrosionsrate: korrosiv auf Metalle

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under the storage and handling conditions given.

10.2. Chemical stability

The product is stable under the conditions stated herein referring to surrounding, storage and handling.

10.3. Possibility of hazardous reactions

Stable under normal conditions.

10.4. Conditions to avoid

heat

10.5. Incompatible materials

Substances to avoid

Aluminium

Strong oxidants.

Strong acids and lyes.

10.6. Hazardous decomposition products

No decomposition when storing and handling correctly.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 2000 mg/kg		calculated	

	Value/Validation	Species	Method	Remark
LD50 acute dermal	> 600 mg/kg	rat	OECD 402	Value refers to N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin (CAS No. 2372-82-9)
Skin irritation	irritant		Fachmännische Beurteilung	
Skin sensitization	No information available.			
Sensitization respiratory system	No information available.			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity	Ames-Test	Salmonella typhimurium		negative
Reproduction-Toxicity				No data available
Carcinogenicity		rat	OECD test guideline 453	nicht kanzerogen
Specific target organ toxicity (single exposure)	No data available.			
Specific target organ toxicity (repeated exposure)	No data available			
Aspiration hazard	No aspiration toxicity classification.			

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 0,68 mg/l (96 h)	Oncorhynchus mykiss	OECD 203	Values refer to N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin (CAS No. 2372-82-9).
Daphnia	EC50 0,073 mg/l (48 h)	Daphnia magna	US-EPA-Methode	Values refer to N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin (CAS No. 2372-82-9).
Algae	ErC50 0,054 mg/l (96 h)	Pseudokirchneriella subcapitata	US-EPA	Values refer to N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin (CAS No. 2372-82-9).

	Value	Species	Method	Validation
Bacteria	EC50 18 mg/l (3 h)	activated sludge	OECD 209	Values refer to N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin (CAS No. 2372-82-9).

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Biological degradability	ca. 96 % (12 - 15 d)	OECD Confirmatory Test	OECD 303A	

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance / mixture does not contain components in concentrations of 0.1% or higher, which are classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6. Other adverse effects

Very toxic to aquatic organisms.

Don't let the product enter surface waters or sewers.

Avoid release to the environment.

In case of inappropriate handling or disposal, hazardous effects on the environment are possible. Very toxic to aquatic life with long lasting effects.

General regulation

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

SECTION 13: Disposal considerations
13.1. Waste treatment methods

Waste code No.	Name of waste
02 01 08*	agrochemical waste containing hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Consult the disposer.

Abfälle nicht in den Ausguss schütten.

Remove in accordance with local official regulations.

Recommendations for packaging

Not completely emptied and / or uncleaned containers can be disposed of like the product.

Totally emptied packaging may be taken for recycling. The taking back of packaging may be done by the Landbell AG.

General information

Avoid release of product into sewer systems, water courses or soil.

Do not re-use empty containers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1903	1903	1903
14.2. UN proper shipping name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin)	Disinfectant, liquid, corrosive, n.o.s. (N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin)
14.3. Transport hazard class(es)	8	8	8
14.4. Packing group	I	III	III
14.5. Environmental hazards	Yes	Yes	Yes

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Land and inland navigation transport ADR/RID

Hazard label(s) 8

Tunnel restriction code E

Classification code C9

Marine transport IMDG

MARINE POLLUTANT

EmS: F-A, S-B

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations

Water hazard class 2 Einstufung nach AwSV, Anlage 1 (5.2)

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information
Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

INTERDES F

- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.