Commercial Product Name: DERBITECH FLEX Cleaner 5 ltr

Article-No.: 26090-002-152-C Revision date: 11.02.2015





SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial Product Name **DERBITECH FLEX Cleaner 5 ltr**

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

Relevant identified uses cleaning agent

1.3. Details of the supplier of the safety data sheet

Company Imperbel N.V./S.A

Bergensesteenweg 32 1651 Lot, Belgium Telephone: +32 2 334 87 00 Fax: +32 2 377 01 90 E-mail: infobe@derbigum.com

Website: www.derbigum.com

1.4. Emergency telephone number

Emergency telephone : + 32 3 575 55 55 (24h/24h)

IRELAND (REPUBLIC OF)

National Poisons Information Centre

Beaumont Hospital +35 318 37 99 64

UNITED KINGDOM

National Poisons Information Service

(Newcastle Centre) 0870 600 6266 (UK only)

Regional Drugs and Therapeutics Centre.

Wolfson Unit

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regula-

Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336

tion (EC) No. 1272/2008

Classification according to Directive

67/548/EEC / 1999/45/EEC

F; R11 Xi; R36 R66 R67

2.2 Label elements

Hazard pictogram





GHS02

Signal word Danger

H225: Highly flammable liquid and vapour. H-statement(s)

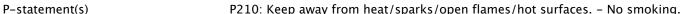
H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Commercial Product Name: DERBITECH FLEX Cleaner 5 ltr

Article-No.: 26090-002-152-C Revision date: 11.02.2015





P233: Keep container tightly closed.

P280: Wear protective gloves/protective clothing/eye protection/face protec-

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P312: Call a POISON CENTER or doctor/physician if you feel unwell. P337+P313: If eye irritation persists: Get medical advice/attention.

Further information EUH066: Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical characterization Ethyl acetate

Ingredient		Classification (EEC) No 67/548 Classification (EC) 1272/2008	Concentration
ethyl acetate	FC N 20F F00 4	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 95.0 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice Move out of dangerous area. Take off all contaminated clothing immediately.

Do not leave the victim unattended. Show this safety data sheet to the doctor

in attendance.

Move to fresh air. If symptoms persist, call a physician. Show this safety data If inhaled

sheet to the doctor in attendance.

In case of skin contact Wash off immediately with soap and plenty of water while removing all con-

taminated clothes and shoes. If skin irritation occurs, get medical advice/at-

tention.

In case of eve contact In the case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

If swallowed Rinse mouth.Do NOT induce vomiting.Call a physician immediately.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2), Foam, Water spray, Dry powder

Extinguishing media which must not High volume water jet

be used for safety reasons

released gases

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or

Vapours may form explosive mixtures with air. Provide sufficient air exchange and/or exhaust in work rooms.

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard

to health.

Commercial Product Name: DERBITECH FLEX Cleaner 5 ltr

Article-No.: 26090-002-152-C Revision date: 11.02.2015





5.3 Advice for firefighters

Special protective equipment for

firefighting

In the event of fire, wear self-contained breathing apparatus.

Additional information on firefight-

ing

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to

enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Pay attention to the spreading of gases especial-

ly at ground level (heavier than air) and to the direction of the wind.

Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface

water or sanitary sewer system. Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, uni-

versal binder, sawdust). Clean contaminated surface thoroughly.

6.5 Additional information

Other information Treat recovered material as described in the section "Disposal considera-

tions".

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Processing may lead to evolution of flammable volatiles. In case of insuffi-

cient ventilation, wear suitable respiratory equipment.

Handle and open container with care. Avoid contact with skin and eyes.

Precautions Smoking, eating and drinking should be prohibited in the application area. For

personal protection see section 8. Observe label precautions.

Advice on protection against fire

and explosion

Take precautionary measures against static discharges. Vapours may form explosive mixture with air. Use water spray to cool unopened containers.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container re-

quirements

Storage must be in accordance with the BetrSichV (Germany). Keep in a cool, well-ventilated place. Keep in an area equipped with solvent resistant floor-

ing.

Keep in properly labelled containers. Containers which are opened must be

carefully resealed and kept upright to prevent leakage.

TRGS 510

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

ETHYL ACETATE

Belgium

Long-term exposure value/ ppm	Long-term exposure value/ mg/m3	Source
400	1 461	35

Source: 35 - Liste de valeurs limites d'expositions professionnelle aux agents chimiques (11.06.2009)

Commercial Product Name: DERBITECH FLEX Cleaner 5 ltr

Article-No.: 26090-002-152-C Revision date: 11.02.2015





DNEL

Value	Target group	Exposure route	Exposure frequency	Source
734 mg/m³	Workers	Inhalation	Long term effects sys-	100
			temic	
734 mg/m ³	Workers	Inhalation	Long term effects Local	100
1486 mg/m ³	Workers	Inhalation	Acute Local effects	100
63 mg/kg	Workers	dermal exposure	Long term effects sys-	100
			temic	
367 mg/m ³	Consumers	Inhalation	Long term effects sys-	100
			temic	
367 mg/kg	Consumers	Inhalation	Long term effects Local	100
734 mg/m ³	Consumers	Inhalation	Acute systemic	100
37 mg/kg	Consumers	dermal exposure	Long term effects sys-	100
			temic	
4,5 mg/kg	Consumers	Oral	Long term effects sys-	100
			temic	

Source: 100 - Firmendaten

PNEC

Value	Exposure route	Source
0,26 mg/l	fresh water	100
0,22 mg/l	Soil	100
0,34 mg/kg	sediment	100
650 mg/l	Waste water pretreatment	100

Source: 100 - Firmendaten

8.2 Exposure controls

Respiratory protection Vapour during processing may be irritating to the respiratory tract and to the

eyes. When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

Remarks: Recommended Filter type: A2

Use the indicated respiratory protection if the occupational exposure limit is

exceeded and/or in case of product release (dust).

Hand protection Protective gloves complying with EN 374.Please observe the instructions re-

garding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and

the contact time.

Suitable material: Nitriles

Unsuitable material: woven fabric, Leather gloves

Break through time: <25 min

Eye protection Tightly fitting safety goggles

Skin and body protection Wear suitable protective equipment. Long sleeved clothing

General protective and hygiene

measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the

product. Avoid contact with the skin and the eyes.

Engineering measures Ensure adequate ventilation, especially in confined areas. If these are not suf-

ficient to maintain concentrations of particulates and solvent vapour below

the OEL, suitable respiratory protection must be worn.

Commercial Product Name: DERBITECH FLEX Cleaner 5 ltr

Article-No.: 26090-002-152-C Revision date: 11.02.2015





SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid liquid Form Odour fruit-like appr. -84 °C

Melting point [°C] / Freezing point

[°C]

Boiling range [°C] appr. 76 °C

Highest measured value: 78 -4 °C Flash point [°C]

Evaporation rate [kg/(s*m²)] not determined

Explosion limits [Vol-%]

Lower limit: < 2.1 % volUpper limit: 11,5 % vol

Vapour pressure [kPa] 100

Vapour density not determined appr. 0,9 g/cm³ Density [q/cm³]

20 °C Temperature: Water solubility [g/l] 61 g/l

Partition coefficient n-octanol /wa-

ter (log P O/W)

not determined

Autoignition temperature [°C] not determined Viscosity, dynamic [kg/(m*s)] appr. 0,5 mPa.s

> 20°C Temperature:

Explosive properties Not relevant Oxidising properties Not relevant

9.2 Other information

appr. 460 °C Ignition temperature [°C]

Evaporation rate (ether = 1):

SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions

Hazardous reactions Risk of violent reaction.

10.4 Conditions to avoid

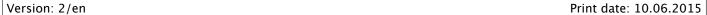
Conditions to avoid Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid Strong oxidizing agents, Strong acids and strong bases, Alkali metals

Commercial Product Name: DERBITECH FLEX Cleaner 5 ltr

Article-No.: 26090-002-152-C Revision date: 11.02.2015





SECTION 11: Toxicological information

11.1 Information on toxicological effects

ETHYL ACETATE

Oral toxicity [mg/kg]	Test criterion	Test species	Source
5620 mg/kg	LD50	rat	100

Source: 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
18000 mg/kg	LD50	rabbit	100

Source: 100 - Firmendaten

Inhalative toxicity [mg/	Test criterion	Test species	Exposure duration	Source
[]				
56 mg/l	LC50	rat	8 h	100

Source: 100 - Firmendaten

LC50 Inhalation 4h for	Test criterion	Test species	Exposure duration	Source
vapours [mg/l]				
56 mg/l	LC50	rat	4 h	100

Source: 100 - Firmendaten

Irritant effect on skin No skin irritation

Test species rabbit

Irritant effect on eyes May irritate eyes.

Test species rabbit

Sensitization No sensitization responses were observed.

Measuring method OECD Test Guideline 406

Test species guinea pig

11.2 Additional information

Experience in practice Symptoms of overexposure may be headache, dizziness, tiredness, nausea

and vomiting. Irritating to eyes, respiratory system and skin. Irritating to mu-

cous membranes

SECTION 12: Ecological information

12.1 Toxicity

ETHYL ACETATE

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
230 mg/l	LC50	Oncorhynchus mykiss	96 h	100
		(rainbow trout)		

Source: 100 - Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
717 mg/l	EC 50	Daphnia magna (Water flea)	48 h	100

Commercial Product Name: DERBITECH FLEX Cleaner 5 ltr

Article-No.: 26090-002-152-C Revision date: 11.02.2015



Source: 100 - Firmendaten

Toxicity to algae [mg/l]	Source
3300 mg/l	100

Source: 100 - Firmendaten

NOEC (daphnia) [mg/l]	Test species	Exposure duration	Source
2,4	Daphnia magna (Water flea)	21 day(s)	100

Source: 100 - Firmendaten

NOEC (algae) [mg/l]	Test species	Measuring method	Source
> 101	Desmodesmus subspicatus	OECD Test Guideline 201	100

Source: 100 - Firmendaten

Bioaccumulation Readily biodegradable.
Bioaccumulation Bioaccumulation slight

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics deter-

mination

This preparation contains no substance considered to be persistent, bioaccu-

mulating nor toxic (PBT).

12.6 Other adverse effects

Further information on ecology See also section 12.1

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations According to the European Waste Catalogue, Waste Codes are not product

specific, but application specific. The following Waste Codes are only sugges-

tions:

Waste Code 070204 - other organic solvents, washing liquids and mother liquors

Uncleaned empty packaging -

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1173	1173	1173
14.3 Transport hazard	3	3	3
class(es)			
14.4 Packaging group	II	II	II
14.2 Description of the	ETHYL ACETATE	ETHYLACETAT	Ethylacetat
goods			
14.2 UN proper shipping		ETHYL ACETATE	Ethyl acetate
name			
Labels	3	3	3 - Flammable Liquid
			•
Risk No.	33	•	*
Category	2		
Factor	3		
Classification Code	F1		
Tunnel restriction code	D/E		
EmS		F-E;S-D	

Commercial Product Name: DERBITECH FLEX Cleaner 5 ltr

Article-No.: 26090-002-152-C Revision date: 11.02.2015



Version: 2/en Print date: 10.06.2015

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
Stowage category		В	

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to An-

nex II of MARPOL73/78 and the IBC

Code

Not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Additional regulations Additionally, observe any national regulations!

SECTION 16: Other information

Relevant R-phrases R11: Highly flammable.

R36: Irritating to eyes.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

Relevant H-phrases H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.

EUH066: Repeated exposure may cause skin dryness or cracking.

Wording of the hazard classes Flam. Liq.: Flammable liquid

Eye Irrit.: Serious eye irritation

STOT SE: Specific target organ toxicity - single exposure

Modifications since last version Modifications of the previous version are denoted with an asterisk (*).

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

Classification	evaluation
Flam. Liq. 2; H225	
Eye Irrit. 2; H319	
STOT SE 3; H336	

Department issuing safety data

sheet

Environmental Department

Further information Full text of R-phrases referred to under sections 2 and 3