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

1.1 Product identifier

Trade name: DCXF-AP

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

Application of the substance / the mixture
Disinfectant & biocide for controlling flying and crawling insect pests, in particular bedbugs, bacteria, viruses, fungi & spores.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Braincon GmbH & Co KG
Grinzinger Allee 5
A-1190 Vienna
T: +43 1 610670
Email: braincon@bct.co.at

Further information obtainable from:
Dipl. Ing. Davul Ljuhar
Email: d.ljuhar@bct.co.at

1.4 Emergency telephone number:

+43 1 610670
Available during office hours:
Mo - Fr: 9 a.m. - 5 p.m.

Call the national emergency number!

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms

GHS05

Signal word Danger

Hazard-determining components of labelling:
Oxirane, methyl-, Polymer mit Oxiran, mono(2-propylheptyl) ether

(Contd. on page 2)

(Contd. of page 1)

hydrogen peroxide solution

Hazard statements

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P280 Wear 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.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: The mixture does not contain PBT substances.

vPvB: The mixture does not contain vPvB substances.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 7722-84-1 EINECS: 231-765-0 Index number: 008-003-00-9	hydrogen peroxide solution Ox. Liq. 1, H271 Skin Corr. 1A, H314 Acute Tox. 4, H302; Acute Tox. 4, H332	> 2.5 – ≤ 10%
CAS: 166736-08-9 EC number: 605-450-7	Oxirane, methyl-, Polymer mit Oxiran, mono(2-propylheptyl) ether Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315	> 1 – ≤ 2.5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	> 0 – ≤ 2.5%
CAS: 8003-34-7 EINECS: 232-319-8 Index number: 613-022-00-6	Pyrethrins and Pyrethroids Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	≤ 1%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of discomfort or doubt, seek medical advice.

(Contd. on page 3)

(Contd. of page 2)

If unconscious, use a stable lateral position and do not administer anything through mouth.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact:
Wash with plenty of soap and water.
Seek medical treatment in case of complaints.
After eye contact:
Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Call a doctor immediately.
After swallowing:
Do NOT induce vomiting.
Rinse out mouth and then drink plenty of water.
Call a doctor immediately.
4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture
In case of fire, the following can be released:
COx
5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.
Additional information
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid contact with skin and eyes.
Do not breathe vapour/spray.
Restricted access to the affected area until cleaning work is completed.
6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

(Contd. on page 4)

(Contd. of page 3)

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding, inert material (sand, diatomite, acid binders, universal binders).
Dispose contaminated material as waste according to item 13.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Keep receptacles tightly sealed.
Avoid contact with skin and eyes.
Avoid breathing mist/vapours/spray.
Use personal protective equipment as required.
Eye wash bottles and emergency showers should be provided in the immediate area near the workplace.
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Store in a dry, cool, well-ventilated area.
Protect from heat and direct sunlight.
Protect from frost.
Store in accordance with local/regional/national/international regulations.
Information about storage in one common storage facility:
Store away from oxidising agents.
Store away from feeding stuff.
Store away from foodstuffs.
Further information about storage conditions:
Store in original container.
Keep container tightly sealed.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 7722-84-1 hydrogen peroxide solution	
MAK (Austria)	Short-term value: 2.8 mg/m³, 2 ppm Long-term value: 1.4 mg/m³, 1 ppm

(Contd. on page 5)

(Contd. of page 4)

MAK (Germany)	Long-term value: 0.71 mg/m³, 0.5 ppm
VME (France)	Long-term value: 1.5 mg/m³, 1 ppm
WEL (Great Britain)	Short-term value: 2.8 mg/m³, 2 ppm Long-term value: 1.4 mg/m³, 1 ppm
TWA (Italy)	Long-term value: 1.4 mg/m³, 1 ppm A3
CAS: 67-63-0 propan-2-ol	
MAK (Austria)	Short-term value: 2000 mg/m³, 800 ppm Long-term value: 500 mg/m³, 200 ppm
AGW (Germany)	Long-term value: 500 mg/m³, 200 ppm 2(II);DFG, Y
VME (France)	Short-term value: 980 mg/m³, 400 ppm
WEL (Great Britain)	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm
TWA (Italy)	Short-term value: 983 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm A4

DNELs

CAS: 67-63-0 propan-2-ol

Oral	Long-term exposure - systemic effects	26 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	319 mg/kg bw/d (consumer)
		888 mg/kg bw/d (workers)
Inhalative	Long-term exposure - systemic effects	89 mg/m³ (consumer)
		500 mg/m³ (workers)

PNECs

CAS: 67-63-0 propan-2-ol

fresh water	140.9 mg/l
sea water	140.9 mg/l
intermittent release	140.9 mg/l
STP	2,251 mg/l
sediment (fresh water)	552 mg/kg dw
sediment (sea water)	552 mg/kg dw
soil	28 mg/kg dw
oral	160 mg/kg food

(Contd. on page 6)

(Contd. of page 5)

Ingredients with biological limit values:	
CAS: 67-63-0 propan-2-ol	
BGW (Germany)	25 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton 25 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton
IBE (Italy)	40 mg/l Campioni: urine Momento del prelievo: f.t.f.s.l Indicatore biologico: acetone

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not eat or drink while working.
Avoid breathing mist/vapours/spray.
Eye wash bottles and emergency showers should be provided in the immediate area near the workplace.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.
Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
Protection of hands:

Protective gloves

EN 374
Material of gloves
Butyl rubber, BR
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

(Contd. on page 7)

(Contd. of page 6)

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:

Tightly sealed goggles

EN 166
Body protection: Protective work clothing
Limitation and supervision of exposure into the environment
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information
Appearance:

Form:	Fluid
Colour:	Clear
Odour:	Characteristic
Odour threshold:	No information available.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	No information available.
Initial boiling point and boiling range:	> 100 °C
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	No information available.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	No information available.
Upper:	No information available.
Oxidising properties	No information available.
Vapour pressure:	No information available.
Density:	No information available.
Vapour density	No information available.
Evaporation rate	No information available.

(Contd. on page 8)

(Contd. of page 7)

Solubility in / Miscibility with water: Fully miscible.

Partition coefficient: n-octanol/water: No information available.

Viscosity:
Dynamic: No information available.
Kinematic: No information available.

Solvent content:
VOC (EC) 0.79 – < 1.05 %

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No dangerous reactions are to be expected when used as intended.
10.2 Chemical stability No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials: oxidizing agent
10.6 Hazardous decomposition products:
No decomposition if used and stored according to specifications.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
CAS: 67-63-0 propan-2-ol		
Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

Primary irritant effect:
Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation
Causes serious eye damage.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
CAS: 67-63-0 propan-2-ol	
EC50 (48 h)	> 13,000 mg/l/ (daphnia) (Daphnia magna)
LC50 (96 h)	1,400 mg/l (fish) (Lepomis macrochirus)
EC50 (72 h)	> 1,000 mg/l (algae) (Scenedesmus quadricauda)

12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
Ecotoxical effects:
Remark: Harmful to fish
Additional ecological information:
General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Harmful to aquatic life with long lasting effects.
12.5 Results of PBT and vPvB assessment
PBT: The mixture does not contain PBT substances.
vPvB: The mixture does not contain vPvB substances.
12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Only dispose of product residues via authorised companies according to local legislation.
European waste catalogue
Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

20 01 19*	pesticides

Uncleaned packaging:
Recommendation:
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN-Number
ADR, ADN, IMDG, IATA not regulated

(Contd. on page 10)

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14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	not regulated
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	not regulated
14.4 Packing group	
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
UN "Model Regulation":	not regulated

SECTION 15: Regulatory information

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

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H225 Highly flammable liquid and vapour.
H271 May cause fire or explosion; strong oxidiser.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008	
Serious eye damage/eye irritation Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

(Contd. on page 11)

(Contd. of page 10)

Department issuing SDS:
UmEnA GmbH
http://umena.at

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Ox. Liq. 1: Oxidizing liquids – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3