



SAFETY DATA SHEET

Pro-fit Crystal

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

1.1. Product identifier

Product name	Pro-fit Crystal
Product number	6860/22077
UFI	UFI: HG5K-0KP8-H10K-YNTJ

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

Identified uses	Bleach
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1.3. Details of the supplier of the safety data sheet

Supplier	Cole & Wilson Ltd Nabbs Lane Chemical Works Nabbs Lane Slaithwaite Huddersfield HD7 5AT Tel: 01484 842353 info@coleandwilson.com
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Manufacturer	Christeyns NV Afrikalaan 182 9000 Gent Belgium Tel: +32 9 223 38 71 info@christeyns.be
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1.4. Emergency telephone number

Emergency telephone	Tel: 01484 842353 (8.30am-5pm Monday to Friday)
National emergency telephone number	NHS Direct 111 (GB) National Poisons Information Service Tel: +44 344 892 0111 (UK) - Medical Professionals Only National Poisons Information Centre Tel: +353 (01) 809 2566 (Ireland) - Healthcare Professionals only (24 hour service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Ox. Liq. 2 - H272 Met. Corr. 1 - H290
Health hazards	Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1A - H314 STOT SE 3 - H335
Environmental hazards	Aquatic Chronic 1 - H410

2.2. Label elements

Hazard pictograms



Signal word

Danger

Pro-fit Crystal

Hazard statements	H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H302+H332 Harmful if swallowed or if inhaled. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 Keep only in original packaging. P260 Do not breathe vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P284 [In case of inadequate ventilation] wear respiratory protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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. P403+P235 Store in a well-ventilated place. Keep cool.
Supplemental label information	EUH071 Corrosive to the respiratory tract.
Contains	HYDROGEN PEROXIDE SOLUTION , ACETIC ACID , PERACETIC ACID
Detergent labelling	15 - < 30% oxygen-based bleaching agents
Supplementary precautionary statements	P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

hydrogen peroxide solution ... %	10 - 25%
CAS number: 7722-84-1	EC number: 231-765-0
Classification Ox. Liq. 1 - H271 Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	
ACETIC ACID	5 - 10%
CAS number: 64-19-7	EC number: 200-580-7
Classification Flam. Liq. 3 - H226 Skin Corr. 1A - H314 Eye Dam. 1 - H318	

Pro-fit Crystal

PERACETIC ACID	3 - 5%
CAS number: 79-21-0	EC number: 201-186-8
M factor (Acute) = 1	
Classification Flam. Liq. 3 - H226 Org. Perox. D - H242 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause respiratory irritation.
Ingestion	Harmful if swallowed. Burns of upper digestive and respiratory tracts.
Skin contact	Causes severe burns.
Eye contact	Corrosive to skin and eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire. DO NOT USE DRY CHEMICAL OR FOAM. KEEP CONTAINERS COOL WITH WATER SPRAY.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries
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5.3. Advice for firefighters

Protective actions during firefighting	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment
Special protective equipment for firefighters	Firefighter's clothing will provide a basic level of protection for chemical incidents. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

Pro-fit Crystal

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate area. Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Collect spilled liquid in plastic container (NOT METAL). Never return to original tank/container. Flush away small residues with excess water. Contain spillage but do not absorb in sawdust or other combustible material. If substance has entered water course or sewer, advise police. Inform authorities if large amounts are involved.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Use only in well-ventilated areas. Avoid spilling. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Cleanliness is essential as any contamination may cause decomposition. Never return unused material to original containers. Eye wash facilities and emergency shower must be available when handling this product. Do not eat, drink or smoke when using this product. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep only in the original container in a cool, well-ventilated place. Keep away from flammable and combustible materials. Keep away from heat, sparks and open flame. Protect from sunlight.

Storage class Oxidiser storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

hydrogen peroxide solution ... %

Long-term exposure limit (8-hour TWA): WEL 1 ppm 1.4 mg/m³

Short-term exposure limit (15-minute): WEL 2 ppm 2.8 mg/m³

ACETIC ACID

Short-term exposure limit (15-minute): 50 mg/m³ 20 ppm

Long-term exposure limit (8-hour TWA): 25 mg/m³ 10 ppm

Short-term exposure limit (15-minute): Ireland (IOELVs) 50 mg/m³ 20 ppm

Long-term exposure limit (8-hour TWA): Ireland (IOELVs) 25 mg/m³ 10 ppm

PERACETIC ACID

Short-term exposure limit (15-minute): Ireland (OELVs) 0.4 (IFV) ppm

WEL = Workplace Exposure Limit.

hydrogen peroxide solution ... % (CAS: 7722-84-1)

Pro-fit Crystal

DNEL	Workers - Inhalation; Short term local effects: 3 mg/m ³ Workers - Inhalation; Long term systemic effects: 1.4 mg/m ³ Consumer - Inhalation; Short term local effects: 1.93 mg/m ³ Consumer - Inhalation; Long term systemic effects: 0.21 mg/m ³
PNEC	- Fresh water; 0.0126 mg/l - marine water; 0.0126 mg/l - Intermittent release; 0.0138 mg/l - STP; 4.66 mg/l - Sediment (Freshwater); 0.47 mg/kg - Sediment (Marinewater); 0.47 mg/kg - Soil; 0.0023 mg/kg

ACETIC ACID (CAS: 64-19-7)

DNEL	Workers - Inhalation; Short term local effects: 25 mg/m ³ Workers - Inhalation; Long term local effects: 25 mg/m ³ Consumer - Inhalation; Short term local effects: 25 mg/m ³ Consumer - Inhalation; Long term local effects: 25 mg/m ³
PNEC	Sediment (Freshwater); 11.36 mg/kg dwt Sediment (Marinewater); 1.136 mg/kg dwt marine water; 0.3058 mg/l Fresh water; 3.058 mg/l Intermittent release; 30.58 mg/l Soil; 0.478 mg/kg dwt STP; 85 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls	All handling should only take place in well-ventilated areas.
Eye/face protection	Safety glasses with side-shields (EN 166).
Hand protection	Chemical resistant PVC/Nitrilrubber gloves (to European standard EN 374 or equivalent). Thickness: 0,4 mm. Penetration time: >480 min (level 6). The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Other skin and body protection	Wear suitable protective clothing (EN14605). Long sleeved protective clothing
Hygiene measures	Provide eyewash station and safety shower. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Keep away from food and drink. Wash hands and face before break and the end of a shift. Avoid contact with the skin and eyes. Remove dirty clothes.
Respiratory protection	Wear suitable respiratory protection if exposure levels approach or exceed the stated exposure levels. Gas/vapour filter, type A: organic vapours (EN141).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Acrid.

Pro-fit Crystal

pH	pH (concentrated solution): 0.5 ± 0.2 pH (diluted solution): 3.4 ± 0.5 (0.3% solution)
Initial boiling point and range	>=100°C
Flash point	>80°C
Relative density	~1.115 @ 20°C
Solubility(ies)	Soluble in water.
Auto-ignition temperature	>250°C
Decomposition Temperature	>=60°C
Viscosity	<30 mPa s @ 20°C

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No additional information available

10.2. Chemical stability

Stability Stable in use and storage conditions as recommended in item 7. Avoid contamination with organic substances. Contact with alkaline products gives an exothermic reaction. Heating may cause fire

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Heating may cause a fire or explosion. Contact with alkaline products gives an exothermic reaction. Avoid contamination with organic substances. Can decompose violently when heated or in contact with heavy metals, aluminium, acids, bases and organic materials.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid direct sunlight.

10.5. Incompatible materials

Materials to avoid Iron or steel. Copper and copper alloys. Galvanized steel. Strong acids. Strong bases. metal. Never mix with other materials

10.6. Hazardous decomposition products

Hazardous decomposition products Rapid decomposition will release large quantities of oxygen (health and fire risk). Decomposition is exothermic causing temperature rise which will further increase the rate of decomposition creating explosive situations. On decomposition irritating gases, vapours and oxygen are released. Decomposition will not occur if product is stored and used correctly.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Summary Harmful if swallowed.

ATE oral (mg/kg) 1,736.11

Acute toxicity - dermal

Summary Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 22,916.67

Acute toxicity - inhalation

Summary Harmful by inhalation.

ATE inhalation (dusts/mists mg/l) 1.5

Skin corrosion/irritation

Pro-fit Crystal

Skin corrosion/irritation	Causes severe skin burns & eye damage
Serious eye damage/irritation	
Serious eye damage/irritation	Causes serious eye damage.
Respiratory sensitisation	
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation	
Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	
Aspiration hazard	Based on available data the classification criteria are not met.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	May cause respiratory system irritation. Vapours may irritate throat/respiratory system. Symptoms following overexposure may include the following: Coughing.
Ingestion	May cause severe internal injury. May cause stomach pain or vomiting. May cause chemical burns in mouth, oesophagus and stomach.
Skin contact	Causes burns.
Eye contact	This product is strongly corrosive. Immediate first aid is imperative. Causes burns. Causes serious eye damage.
Acute and chronic health hazards	May cause burns in mucous membranes, throat, oesophagus and stomach. Burning pain and severe corrosive skin damage. May cause chemical eye burns.
Route of exposure	Skin and/or eye contact Inhalation Ingestion
Toxicological information on ingredients.	

hydrogen peroxide solution ... %

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Inhalation May cause respiratory irritation.

Pro-fit Crystal

Ingestion	Harmful if swallowed.
Skin contact	Irritating to skin.
Eye contact	Risk of serious damage to eyes.

ACETIC ACID

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,310.0

Species Rat

ATE oral (mg/kg) 3,310.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 5,620.0

Species Mouse

ATE inhalation (vapours mg/l) 5,620.0

PERACETIC ACID

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

SECTION 12: Ecological information

Ecotoxicity The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Ecological information on ingredients.

hydrogen peroxide solution ... %

Ecotoxicity The product is mildly toxic to aquatic organisms.

12.1. Toxicity

Acute aquatic toxicity

Summary Not classified.

Chronic aquatic toxicity

Summary Very toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

hydrogen peroxide solution ... %

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 16.4 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.4 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 3.7 to 160 mg/l, Algae

ACETIC ACID

Acute aquatic toxicity

Pro-fit Crystal

Acute toxicity - fish	LC ₅₀ , 96 hours: 75 mg/l, <i>Lepomis macrochirus</i> (Bluegill) LC ₅₀ , 96 hours: 88 mg/l, <i>Pimephales promelas</i> (Fat-head Minnow) LC ₅₀ , 96 hours: >300.82 mg/l, <i>Oncorhynchus mykiss</i> (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >300.82 mg/l, <i>Daphnia magna</i>
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >300.82 mg/l, Algae NOEC, 72 hours: 300.82 mg/l,
Acute toxicity - microorganisms	EC10, 0.5 hours: 1000 mg/l, <i>PSEUDOMONAS PUTIDA</i> NOEC, 16 hours: 850 mg/l,

PERACETIC ACID

Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1

12.2. Persistence and degradability

Persistence and degradability Readily biodegradable.

Ecological information on ingredients.

hydrogen peroxide solution ... %

Persistence and degradability Readily biodegradable but will inhibit action of biological treatment plant.

ACETIC ACID

Biodegradation	- Degradation 96%: ~ 20 days - Degradation 50%: ~ 26.7 days - Degradation 50%: ~ 2 days
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12.3. Bioaccumulative potential

Bioaccumulative potential No information available.

Ecological information on ingredients.

hydrogen peroxide solution ... %

Bioaccumulative potential The product is not bioaccumulating.

ACETIC ACID

Bioaccumulative potential	BCF: ~ 3.16,
Partition coefficient	log Pow: ~ -0.17

12.4. Mobility in soil

Mobility No information available.

Ecological information on ingredients.

hydrogen peroxide solution ... %

Mobility The product is non-volatile. The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Pro-fit Crystal

Other adverse effects

Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

Collect and place in suitable waste disposal containers and seal securely. Dispose of waste product or used containers in accordance with local regulations

Waste class

20 01 14* - acids

EURAL Code

SECTION 14: Transport information

Road transport notes

TREM CARD: ZR2

14.1. UN number

UN No. (ADR/RID)

3149

14.2. UN proper shipping name

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILISED

Proper shipping name (ADR/RID)

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILISED

Proper shipping name (IMDG)

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILISED

Proper shipping name (ICAO)

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILISED

Proper shipping name (ADN)

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILISED

14.3. Transport hazard class(es)

ADR/RID class

5.1

ADR/RID subsidiary risk

8

Transport labels



14.4. Packing group

II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

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

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

Not applicable.

SECTION 15: Regulatory information

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

Danish product registration number

Danish national regulations

Pro-fit Crystal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

Key literature references and sources for data	Material Safety Data Sheet, Misc. manufacturers.
Revision comments	Revision is due to addition of UFI number
Revision date	10/06/2021
Revision	22
Supersedes date	10/11/2020
SDS number	6860/22077
Hazard statements in full	H226 Flammable liquid and vapour. H242 Heating may cause a fire. H272 May intensify fire; oxidiser. H290 May be corrosive to metals. 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. H332 Harmful if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.