

Version: 3.3

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

1.1.	Product identifier	
Product form		: Mixture
Product name		: Jet 5
Product code		: SY 042 C1255
Type of formulation		: Soluble concentrate (SL)
Active Ingredient		: Peracetic acid
1.2. Relevant identified uses of the substance or mixture and uses advised against		stance or mixture and uses advised against
2.1.	2.1. Relevant identified uses	

#### : Plant protection product for professional use. Agriculture. Main use category Use of the substance/mixture : Disinfectant.

#### 1.2.2. **Uses advised against**

No additional information available.

#### Details of the supplier of the safety data sheet 1.3.

Supplier: SOLVAY Rue de Ransbeek, 310 B-1120 Bruxelles

Distributor: CERTIS UK

Suite 5, 3 Riverside Granta Park Great Abington Cambridgeshire CB21 6AD United Kingdom Tel: +44 (0)845 373 0305 Fax: +44 (0)1223 891210 Email: certis@certiseurope.co.uk Website: www.certiseurope.co.uk

1.4. Emergency telephone number	
Emergency number	: Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.
	For further advice for medical professionals:
	The National Poisons Information Service: +44 (0) 870 600 6266.
	For further advice for veterinary surgeons: +44 (0) 20 7635 9195
	Dublin - National Poisons Information Centre, Beaumont Hospital, Dublin 9:
	Available from 8 am to 10 pm - 7 days: +353 (01) 809 2166
	Available 24hrs: +353 (01) 809 2566
SECTION 2: Hazards identification	

2.1.	Classification of the substance or mixture				
Classifi	Classification according to Regulation (EC) No. 1272/2008 [CLP]				
Ox. Sol.	H272				



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Acute Tox. 4 (Oral)	H302	
Acute Tox. 4 (Dermal) H312		
Acute Tox. 4 (Inhalation) H332		
Skin Corr. 1A	H314	
Eye Dam. 1	H318	
STOT SE 3	H335	
Aquatic Chronic 1	H410	
Full text of hazard class	es and H-statements : s	ee section 16
2.2. Label elemer	nts	
Labelling according to	Regulation (EC) No. 1	272/2008 [CLP]
Hazard pictograms (CLF	P)	: GHS03 GHS05 GHS07 GHS09
Signal word (CLP)		: Danger
Hazard statements (CLF	P)	<ul> <li>H272 - May intensify fire; oxidiser.</li> <li>H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.</li> <li>H314 - Causes severe skin burns and eye damage.</li> <li>H335 - May cause respiratory irritation.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statemen	its (CLP)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P221 - Take any precaution to avoid mixing with combustibles.</li> <li>P260 - Do not breathe vapours/spray.</li> <li>P262 - Do not get in eyes, on skin, or on clothing.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.</li> </ul>
EUH-statements		: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.
2.3. Other hazard	ls	
No additional informatio	n available	
SECTION 3: Comp	position/information	on on ingredients
2.4 Cubetere		
3.1. Substances		
Not applicable		

3.2. Mixture



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Name	Product identifier	% (w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrogen peroxide	(CAS No) 7722-84-1	20	Ox. Liq. 1, H271
	(EC no) 231-765-0		Acute Tox. 4 (Oral), H302
	(EC index no) 008-003-00-9		Acute Tox. 4 (Inhalation), H332
	(REACH-no) 01-2119485845-22		Skin Corr. 1A, H314
			STOT SE 3, H335
			Aquatic Chronic 3, H412
Acetic acid	(CAS No) 64-19-7	10	Flam. Liq. 3, H226
	(EC no) 200-580-7		Skin Corr. 1A, H314
	(EC index no) 607-002-00-6		
	(REACH-no) 01-2119475328-30		
Paracetic acid	(CAS No) 79-21-0	5	Flam. Liq. 3, H226
	(EC no) 201-186-8		Org. Perox. D, H242
	(EC index no) 607-094-00-8		Acute Tox. 4 (Oral), H302
	(REACH-no) 01-2119531330-56		Acute Tox. 4 (Dermal), H312
			Acute Tox. 4 (Inhalation), H332
			Skin Corr. 1A, H314
			STOT SE 3, H335
			Aquatic Acute 1, H400
			Aquatic Chronic 1, H410
Alcohols, C6-12, ethoxylated	(CAS No) 68439-45-2	1	Acute Tox. 4 (Oral), H302
			Eye Dam. 1, H318

# Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measure	S
First-aid measures general	: In the event of any complaints or symptoms, avoid further exposure.
First-aid measures after inhalation	: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing, cover him and keep him warm. If symptoms persist call a doctor.
	Oxygen or artificial respiration if needed.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and shoes.
	If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for at least 15 minutes, also under eyelides. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
First-aid measures after ingestion	: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Artificial respiration and/or oxygen may be necessary.
4.2. Most important symptoms and e	effects, both acute and delayed
Symptoms/injuries after inhalation	: Severe respiratory irritant: breathing difficulties, cough, chemical pneumonitis, pulmonary oedema. Repeated or prolonged exposure may cause: Nose bleeding, chronic bronchitis.
Symptoms/injuries after skin contact : The product is corrosive. Redness, swelling of tissue, burn.	
Symptoms/injuries after eye contact	: The product is corrosive. May cause irreversible eye damage. Redness, Lachrymation, Swelling

of tissue, Burn.



Symptoms/injuries after ingestion : May cause severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Nausea, Abdominal pain, Bloody vomiting, Diarrhoea, Suffocation, Cough, Severe shortness of breath. Risk of Respiratory disorder.

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

Take victim immediately to hospital. Immediate medical attention is required. Burns must be treated by a physician. Risk of shock. Medical supervision for minimum 48 hours.

SECTION 5: Firefighting measures **Extinguishing media** 5.1. Suitable extinguishing media : Water spray Dry chemical powder Alcohol resistant foam Carbon dioxide (CO<sub>2</sub>). Unsuitable extinguishing media : Jet of water. 5.2. Special hazards arising from the substance or mixture Fire hazard : May cause fire or explosion; strong oxidizer. Oxygen released in thermal decomposition may support combustion. Combustion or thermal decomposition may generate toxic vapours. Advice for firefighters 5.3. **Firefighting instructions** : Exercise caution when fighting any chemical fire. Fight fire from safe distance and protected location. Do not breathe fumes Cool closed containers exposed to fire with water spray If possible, take the containers out of dangerous zone. Contain fire-fighting water with dikes or absorbents to prevent migration and entry into sewers, streams or groundwater. Protection during firefighting : Wear suitable protective clothing, gloves, eye/face protection and respiratory protection Wear a self-contained breathing apparatus.

# SECTION 6: Accidental release measures

6.1. Personal precautions, protective ec	Personal precautions, protective equipment and emergency procedures		
Protective equipment	: Wear suitable protective clothing, gloves and eye/ face protection.		
Emergency procedures	: Evacuate area.		
	Ensure adequate ventilation.		
	Avoid direct contact with the substance.		
	Contain any spills with dikes or absorbents to prevent migration and entry into sewers, streams or groundwater.		
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#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

Notify the authorities if product enters sewers or public waters.



6.3.	Methods and material for containmer	nt and cleaning up	
Methods for cleaning up :		: Clean up any spills as soon as possible, using an absorbent material to collect it.	
		Once absorbed collect spilled material with shovels, buckets and place in closed containers and label properly.	
		Remove as chemical waste, according to national or local legislation.	
		In the event of major spillage: contact an expert.	
6.4.	Reference to other sections		
Refer to	protective measures listed in Sections 7 a	and 8.	
SECT	ION 7: Handling and storage		
7.1.	Precautions for safe handling		
Precaut	ions for safe handling	: Read label before use.	
		Use only in well-ventilated areas.	
		Before all operations, passivate the piping circuits and vessels according to the procedure recommended by the producer.	
		Use only clean and dry utensils. May not get in touch with organic materials.	
		Avoid breathing mist or spray.	
		Avoid contact with eyes, skin, nose and mouth.	
		Wear suitable protective clothing, gloves and eye or face protection	
		Keep away from heat/sparks/open flames/hot surfaces.	
		Keep away from incompatible materials (SECTION 10.)	
		Do not use sparking tools.	
		Minimize static sparks/avoid flash fire.	
		Do not smoke.	
Hygiene	e measures	: Always wash your hands immediately after handling this product, and once again before leaving the workplace.	
		Contaminated work clothing should not be allowed out of the workplace.	
		Do not eat, drink or smoke when using this product.	
		Wash contaminated clothing before reuse.	



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7.2. Conditions for safe storage, including any incompatibilities				
Storage conditions	: Prevent unauthorised access.			
C C	Store in a cool, well-ventilated place			
	Keep locked up and out of the reach of children.			
	Keep in original containers, tightly closed.			
	Keep away from food, drink and animal feedingstuffs.			
	Keep in properly labelled containers.			
	Keep away from heat/sparks/open flames/hot surfaces.			
	Protect against frost.			
	Do not smoke.			
	No special requirement for electric facility and machines. The product is not flammable.			
	No special requirement against electrostatic charge. The product is not flammable.			
Packing material	: Stainless steel cleaned and passived . Approved grades of HDPE.			
Storage temperature	: < 30°C			
7.3. Specific end use(s)				

Disinfectant for agricultural use. Refer to the label.

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Paracetic acid (79-21-0)			
US	AC	CGIH Threshold Limit Values 02 2014	Short term exposure limit = 0.4 ppm
Other information	on limit values		Fresh water, 0.000224 mg/l
			Sewage treatment plants, 0.051 mg/l
			Fresh water sediment, 0.00018 mg/kg
			Soil, 0.320 mg/kg
			Workers, Inhalation, Systemic effects, Short-term
			exposure, Long-term exposure, 0.6 mg/m3
			Workers, Inhalation, Local effects, Short-term
			exposure, Long-term exposure, 0.6 mg/m3
			Workers, Dermal, Local effects, Short-term exposure,
			0.12 %
			Consumers, Inhalation, Systemic effects, Short-term
			exposure, Long-term exposure, 0.6 mg/m3
			Consumers, Inhalation, Local effects, Long-term
			exposure, 0.6 mg/m3
			Consumers, Inhalation, Local effects, Short-term
			exposure, 0.3 mg/m3
			Consumers, Dermal, Local effects, Short-term
			exposure, 0.12 %



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Hydrogen peroxide (7722-84-1)			
UK	EH40 Workplace Exposure Limits (WELs) 12 2011	time weighted average = 1 ppm time weighted average = 1.4 mg/m <sup>3</sup>	
UK	EH40 Workplace Exposure Limits (WELs) 12 2011	Short term exposure limit = 2 ppm Short term exposure limit = 2.8 mg/m <sup>3</sup>	
US	ACGIH Threshold Limit Values 02 2014	time weighted average = 1 ppm	
Other information on limit valu	ies	Fresh water, 0.0126 mg/l	
		Marine water, 0.0126 mg/l	
		Sewage treatment plants, 4.66 mg/l	
		Intermittent use/release, 0.0138 mg/l	
		Fresh water sediment, 0.047 mg/kg	
		Marine sediment, 0.047 mg/kg	
		Soil, 0.0023 mg/kg	

Acetic acid (64-19-7)			
US	ACGIH Threshold Limit Values 03 2013	time weighted average = 10 ppm	
US	ACGIH Threshold Limit Values 03 2013	Short term exposure limit = 15 ppm	
EU	Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents. 12 2009	time weighted average = 10 ppm time weighted average = 25 mg/m <sup>3</sup> Remarks: Indicative	
Other information on limit valu	es		

Alcohols, C6-12, ethoxylated (68439-45-2)				
US	ACGIH Threshold Limit Values	Remarks: none established		
8.2. Exposure controls				
Appropriate engineering controls	Emergency eye wash fountains a of any potential exposure (EN 15 Provide appropriate exhaust vent	,		
Hand protection	: Nitrile Gauntlet chemical protectiv	<ul> <li>Nitrile Gauntlet chemical protective Gloves (Approved to BS EN 388: 2003, EN 1149 – 1 1996 and Anti Static properties EN 407: 204)</li> </ul>		
Eye protection	: Chemical resistant goggles (Appr	oved to EN 166 1B 345)		
Skin and body protection	Chemical protective clothing with	uit (Approved to BS EN 466: 1995 Type 3) 'liquid – tight' (Type 3) connections. n boot (Approved to EN ISO 20345 -200 joule-)		
Respiratory protection	: When workers are facing concent	trations above the exposure limit they must use appropriate ed breathing apparatus (EN 133), Respirator with a vapour filter		
Hygiene measures	Clean equipment, premises and	r before removing. and water before eating, drinking or smoking.		
Environmental exposure controls	Ğ	nust be avoided.		
<b>SECTION 9: Physical an</b>	d chemical properties			
9.1. Information on basic	physical and chemical properties			
Physical state	: Liquid			

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Colour	: Colourless.		
Odour	: Pungent.		
рН	: <2		
Freezing point	: ca42 °C (calculated value)		
Boiling point	: ca.105 °C (calculated value)		
Flash point	: 74 - 83 °C (closed cup)		
Decomposition temperature Flammability (solid, gas)	: >60 °C : Not applicable. The product is not flammable. Heating may cause fire.		
Vapour pressure	: ca. 32 hPa at 25 °C (calculated value)		
Relative density	: 1.1		
Solubility	: Miscible with water Soluble in organic solvents. Slightly soluble. Aromatic solvents.		
Log Pow	: log Pow: -1.25, Method: calculated value log Pow: -0.52, Method: measured value		
Explosive properties	: It is not explosive.		
Oxidising properties	: Oxidizer.		
9.2. Other information			
Other properties	: pKa1= 8,2 25 °C.		
Potential for exothermic hazard.			
10.2. Chemical stability			
The product is stable at normal handling	and storage conditions.		
10.3. Possibility of hazardous rea	-		
Contact with combustible material may o	cause fire.		
Contact with flammables may cause fire	or explosions.		
·····, ·····			
Risk of explosion if heated under confine	ement.		
Risk of explosion if heated under confine Fire or intense heat may cause violent re	ement.		
Risk of explosion if heated under confine Fire or intense heat may cause violent re	ement.		
Risk of explosion if heated under confine Fire or intense heat may cause violent re <b>10.4.</b> Conditions to avoid Contamination.	ement. upture of packages.		
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Risk of explosion if heated under confine Fire or intense heat may cause violent m <b>10.4.</b> Conditions to avoid Contamination. To avoid thermal decomposition, do not <b>10.5.</b> Incompatible materials Acids, Bases, Metals, Heavy metal salts <b>10.6.</b> Hazardous decomposition p Oxygen. SECTION 11: Toxicological int <b>11.1.</b> Information on toxicological Acute toxicity	ement. upture of packages. overheat. s, Powdered metal salts, Reducing agents, Organic materials, Flammable materials products formation l effects		

LD50 dermal rabbit

1.147 mg/kg



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5 % PAA mixture	
LC50 inhalation rat	4.08 mg/l/4h
Irritation	: Not classified
	Rabbit: Corrosive to skin.
	Risk of serious damage to rabbit eyes.
Corrosivity	: Causes burns.
Sensitisation	: Guinea pig
	No sensitization.
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
	Not carcinogenic in rats and mice.
Mutagenicity	: Not classified
	In vitro tests did not show mutagenic effects.
Toxicity for reproduction	: Not classified
	No toxicity to reproduction. rat, 30.4 mg / kg, NOAEL, fetotoxic effect, rat, 12.5 mg / kg, NOAEL, female, Oral, 13 weekend packages rat, 0.75 mg / kg NOAEL

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Jet 5		
LC50 Fishes (Lepomis macrochirus)	1.1 mg/l (96h)	
EC50 Daphnia	0.73	
EC50 (Pseudokirchneriella subcapitata)	0.16 mg/l, 72 (96 h)	

# 12.2. Persistence and degradability

Jet 5	
Persistence and degradability	Air, t 1/2 ca. 2.6 d
	Result: The product can be degraded by abiotic (e.g. chemical or photolytic) processes.
	Water, Result: Chemical degradation
	Soil, Result: Chemical degradation
Biodegradation	Aerobic:
	Result: Biodegradable
	Effects on waste water treatment plants
	Result: inhibitory action

# 12.3. Bioaccumulative potential

Jet 5	
Log Pow	log Pow: -1.25, Method: calculated value log Pow: -0.52, Method: measured value
Bioaccumulative potential	Not bioaccumulable.

# 12.4. Mobility in soil

Jet 5	
Log Koc	0.63
Ecology - soil	- Soil / Sediment, no significant adsorption - Air, Volatility, Henry constant (H), 0.22 hPa.m <sup>3</sup> / mol is not significant.
24/04/2018	EN (English) 9/12



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12.5. Results of PBT and vPvB assess	ment	
	ed to be persistent, bioaccumulating nor toxic (PBT).	
	ed to be very persistent and very bioaccumulative (vPvB).	
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerat	lons	
13.1. Waste treatment methods		
Waste treatment methods	: Handle empty containers and waste as established by the competent authorities.	
SECTION 14: Transport informatic	on .	
In accordance with ADR / RID / ADNR / IMDO	G / ICAO / IATA	
14.1. UN number		
UN-No.	: 3149	
UN-No.(IATA)	: 3149	
14.2. UN proper shipping name		
Proper Shipping Name	: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED (Peracetic aci	
Transport document description	: UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED (Peracetic acid), 5.1 (8), II, (E)	
14.3. Transport hazard class(es)		
Class (UN)	: 5.1	
Class (IATA)	: 5.1 - Oxidizing substances	
Hazard labels (UN)	: 5.1, 8	
	5.1	
Division (IATA)	: 5.1	
14.4. Packing group		
Packing group (UN)	: 11	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
14.6.1. Overland transport		
Hazard identification number (Kemler No.)	: 58	
Classification code (UN)	: OC1	
Orange plates	<b>58</b> <b>3149</b>	
Special provision (ADR)	: 196, 553	
Transport category (ADR)	: 2	
Tunnel restriction code	· 2	
Limited quantities (ADR)	: L : 1L	
Excepted quantities (ADR)	: E2	
Encepted quantities (ADK)	. L2	



#### 14.6.2. Transport by sea

No additional information available

## 14.6.3. Air transport

No additional information available

14.7. 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

### 15.1.1. EU-Regulations

# No REACH Annex XVII restrictions

Contains no REACH candidate substance

# 15.1.2. National regulations

# 15.2. Chemical safety assessment

No additional information available

# **SECTION 16: Other information**

Source of information : Proxitane AHC Safety Data Sheet of Solvay. Review date: 05.12.2014. Version 2.0

Change date	Previous Version	Section	Changed Item	Change	Comments
18/02/2014	2.0	2	S28	Added	
28/02/2014	2.1	2.2	S26	Added	
22/11/2016	3.1	7.2	Special requirements for electric facility and machines. Measures against electrostatic charge. Storage temperature: <30°C	Added	
		8.2	Updated		According to Solvay recommendations.
24/04/2018	3.2	1.3	Emergency number	updated	

# Full text of H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Org. Perox. D	Organic Peroxides, Type D
Ox. Liq. 1	Oxidising Liquids, Category 1
Ox. Liq. 2	Oxidising Liquids, Category 2

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Skin Corr. 1A	Skin corrosion/irritation, Category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H242	Heating may cause a fire
H271	May cause fire or explosion; strong oxidizer
H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
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
H412	Harmful to aquatic life with long lasting effects

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