

NOVADAN®

SAFETY DATA SHEET

Oxidant Special 150

NOVADAN®

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 28.02.2012

Revision date 10.10.2016

1.1. Product identifier

Product name Oxidant Special 150

Article no. 55780, 55784, 55785, 55786, 55787, 55789, 57774, 57775, 55788

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

Use of the substance/preparation Disinfectant based on peracetic acid.

Relevant identified uses

- SU1 Agriculture, forestry, fishery
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU4 Manufacture of food products
- SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)
- PC8 Biocidal Products (e.g. Disinfectants, pest control)
- PROC2 Use in closed, continuous process with occasional controlled exposure
- PROC10 Roller application or brushing
- PROC11 Non-industrial spraying
- ERC8A Wide dispersive indoor use of processing aids in open systems

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name Novadan ApS

Postal address Platinvej 21

Postcode DK-6000

City Kolding

Country Danmark

Tel + 45 76 34 84 00

Fax + 45 75 50 43 70

E-mail sds@novadan.dk

Website <http://www.novadan.dk>

1.4. Emergency telephone number

Emergency telephone

- EU: National Poisons Information Centre, 24/7:01 809 2166
- UK: NHS:111

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to C; R20/21/22,R35

67/548/EEC or 1999/45/EC

Classification according to
Regulation (EC) No 1272/2008
[CLP/GHS]

Org. Perox EF;H242;
Skin Corr 1A;H314;
Eye Dam. 1;H318;
Acute tox. 4;H302;
Acute tox. 4;H332;
STOT SE3;H335;
Met. Corr. 1;H290;
Aquatic Chronic 1;H410;

Substance / mixture hazardous
properties

For further information, please refer to section 11.

2.2. Label elements

Hazard Pictograms (CLP)



Composition on the label

Hydrogen peroxide, Acetic acid, Peracetic Acid:150 g/kg

Signal word

Danger

Hazard statements

H242 Heating may cause a fire.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H290 May be corrosive to metals.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat / sparks / open flames / hot surfaces. – No smoking.
P261 Avoid breathing spray/mist.
P280 Wear eye protection/protective gloves/protective clothing.
P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / 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 or doctor / physician.
P234 Keep only in original container.
P403+P235 Store in a well-ventilated place. Keep cool.
P273 Avoid release to the environment.

Supplemental label information

For professional users only. Read attached instructions before use.

2.3. Other hazards

Description of hazard

In contact with compounds containing chlorine, toxic gases may form.
Generates strong heat in contact with alkaline compounds, risk of bumping.

Health effect

Corrosive to skin and eyes.
May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY.
Harmful if swallowed.
Harmful if inhaled.
Vapours/aerosol spray may irritate the respiratory system.
See section 11 for additional information on health hazards.

Environmental effects

Very toxic to aquatic life with long lasting effects.
Substantial amounts of the product may lead to a local change in acidity in small water systems which may have adverse effects on aquatic organisms.
This product does not contain any PBT or vPvB substances.

Other hazards

Undiluted, the product may be corrosive to metals.

When used in the recommended dosages, contact time and temperature, the product is compatible with acid-proof stainless steels.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Hydrogen peroxide	CAS no.: 7722-84-1 EC no.: 231-765-0 Index no.: 008-003-00-9 Registration number: 01-2119485845-22-xxxx	C,Xn,O; R20/22,R35,R5, R8 Ox. Liq. 1;H271; Acute tox. 4;H332; Acute tox. 4;H302; Skin Corr 1A;H314; Eye Dam. 1;H318;	15 - 30 %
Peracetic Acid	CAS no.: 79-21-0 EC no.: 201-186-8	Flam. Liq. 3; H226 Org. Perox CD; H242 Skin Corr 1A; H314 Eye Dam. 1; H318 Acute tox. 3; H301 Acute tox. 4; H312 Acute tox. 3; H331 STOT SE3; H335 Aquatic Acute 1; H400 M-factor 1 Aquatic Chronic 1; H410 M-factor 10	15 - 30 %
Acetic acid ...%	CAS no.: 64-19-7 EC no.: 200-580-7 Index no.: 607-002-00-6 Registration number: 01-2119475328-30-XXXX Synonyms: Eddikesyre	R10 C; R35 Flam. Liq. 3; H226 Skin Corr. 1A; H314 Note : B	5 - 15 %
Substance comments	- 15-30%: Disinfectant <5%: phosphonate . The full text for all hazard statements is displayed in section 16.		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination.
Inhalation	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.
Skin contact	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if any discomfort continues.
Eye contact	Important! Immediately rinse with water for at least 15 minutes. May cause permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital.
Ingestion	Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Do not give victim anything to drink if he is unconscious.
Recommended personal protective	Wear necessary protective equipment. For personal protection, see section 8.

equipment for first aid responders

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

Acute symptoms and effects

As described in section 2.2 and 2.3.

Delayed symptoms and effects

The etching penetrates deeply into the tissue and is first noticed after a while.

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

Other Information

In case of unconsciousness, ingestion or eye contact: Immediately call a doctor / ambulance. Show this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards

Although not flammable, this substance has oxidising properties and may increase the rate of combustion of other materials.

Closed containers can burst violently when heated, due to excess pressure build-up.

Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

Hazardous combustion products

Fire or high temperatures create: Oxygen.

5.3. Advice for firefighters

Personal protective equipment

Wear necessary protective equipment. For personal protection, see section 8.

Fire fighting procedures

Reference is made to the company fire procedure.

If risk of water pollution occurs, notify appropriate authorities.

Avoid breathing fire vapours.

Containers close to fire should be removed or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures

Look out! The product is corrosive. Use protective gloves, goggles and suitable protective clothing. In case of inadequate ventilation, use respiratory protection. For personal protection, see section 8.

6.2. Environmental precautions

Environmental precautionary measures

Do not discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Cleaning method

Dam and absorb spillages with sand, earth or other non-combustible material. Wash contaminated area with water.

6.4. Reference to other sections

Other instructions

See section 8 and section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Avoid inhalation of vapours/spray and contact with skin and eyes. Oxidising material - Keep away from flammable and combustible materials. Avoid excessive heat. Do not mix with hypochlorite containing products: toxic chlorine vapors may be formed.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in tightly closed original container in a dry, cool and well-ventilated place.

	Keep away from food, drink and animal feeding stuffs. Store separated from: Chlorine and Alkalis. Oxidising material - Keep away from flammable and combustible materials.
Conditions To Avoid	Keep away from heat, sparks and open flame.

Conditions for safe storage

Storage Temperature	Value: -20-25 °C
Storage Stability	Durability: 36 months.

7.3. Specific end use(s)

Specific 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 limit values

Substance	Identification	Value	TWA Year
Hydrogen peroxide	CAS no.: 7722-84-1	8-hour TWA: 1,4 mg/m ³	2007
	EC no.: 231-765-0	8-hour TWA: 1 ppm	
	Index no.: 008-003-00-9		
	Registration number: 01-2119485845-22-xxxx		
Peracetic Acid	CAS no.: 79-21-0		
	EC no.: 201-186-8		
Acetic acid ...%	CAS no.: 64-19-7	8-hour TWA: 10 ppm	2011
	EC no.: 200-580-7	8-hour TWA: 25 mg/m ³	
	Index no.: 607-002-00-6		
	Registration number: 01-2119475328-30-XXXX		
	Synonyms: Eddikesyre		

DNEL / PNEC from substances

Substance	Hydrogen peroxide
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Local effect Value: 1,93 mg/m ³ Remarks: ECHA
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 0,21 mg/m ³ Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 1,4 mg/m ³ Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Local effect Value: 3 mg/m ³ Remarks: ECHA

Substance	Peracetic Acid
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Systemic effect Value: 0,6 mg/m ³ Remarks: ECHA
DNEL	Group: Worker Exposure route: Dermal Exposure frequency: Short term (acute) Type of effect: Local effect Value: 0,12% w/w Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Local effect Value: 0,6 mg/m ³ Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 0,6 mg/m ³ Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 0,6 mg/m ³ Remarks: ECHA
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Systemic effect Value: 0,6 mg/m ³ Remarks: ECHA
DNEL	Group: Consumer Exposure route: Oral Exposure frequency: Short term (acute) Type of effect: Local effect Value: 0,12% w/w Remarks: ECHA
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Local effect Value: 0,3 mg/m ³
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 0,6 mg/m ³ Remarks: ECHA
DNEL	Group: Consumer Exposure route: Inhalation

	Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 0,6 mg/m ³ Remarks: ECHA
PNEC	Exposure route: Soil Value: 320 µg/kg soil dw Remarks: ECHA
PNEC	Exposure route: Sediment Value: 0,00018 mg/kg sediment dw Remarks: ECHA
PNEC	Exposure route: Sewage treatment plant STP Value: 0,051 mg/L Remarks: ECHA
PNEC	Exposure route: Water Value: 0,000224 mg/L Remarks: ECHA
Substance	Acetic acid ...%
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 25 mg/m ³ Remarks: ECHA
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Local effect Value: 25 mg/m ³ Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 25 mg/m ³ Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Local effect Value: 25 mg/m ³ Remarks: ECHA

8.2. Exposure controls

Recommended monitoring procedures	Not known.
Limitation of exposure on workplace	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. An eye wash bottle must be available at the work site. Mechanical ventilation may be required.

Safety signs



Respiratory protection

Respiratory protection	In case of inadequate ventilation use suitable respirator. Type A2/B2/P2 (EN 143/EN149)
------------------------	---

Hand protection

Hand protection	Use protective gloves made of: Butyl rubber. Neoprene. Nitrile. (EN 374)
Breakthrough time	Breakthrough time for nitrile rubber, neoprene and butyl rubber is approx. 3 hours. The recommendation is a qualified estimate based on knowledge of the components. Elastic gloves stretch when used as glove thickness and thus the breakthrough time reduced. The EN 374-3 standard test is performed at 23°C, but the practical temperature of the glove is approx. 35°C. The breakthrough time of the different glove guides, is therefor reduced by a factor 3.

Eye / face protection

Eye protection	Wear approved safety goggles. (EN 166).
----------------	---

Skin protection

Skin protection (except hands)	Wear apron or protective clothing in case of contact. Wear rubber footwear.
--------------------------------	---

Thermal hazards

Thermal hazards	See section 5.
-----------------	----------------

Appropriate environmental exposure control

Environmental exposure controls	See section 6.
---------------------------------	----------------

Other Information

Other Information	DO NOT SMOKE IN WORK AREA!
-------------------	----------------------------

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Colourless.
Odour	Characteristic. Slightly pungent odour.
Comments, Odour limit	No data recorded.
pH (as supplied)	Value: < 1,0
pH (aqueous solution)	Value: ~ 3,0
Comments, pH (aqueous solution)	0,3%
Comments, Melting point / melting range	Not relevant.
Comments, Boiling point / boiling range	Not relevant.
Comments, Flash point	Not relevant.
Comments, Evaporation rate	Not relevant.
Flammability (solid, gas)	Not relevant.
Comments, Explosion limit	Not relevant.
Comments, Vapour pressure	Not relevant.
Comments, Vapour density	Not relevant.
Specific gravity	Value: ~ 1,15 kg/l
Solubility description	Completely soluble in water.
Comments, Partition coefficient: n-octanol / water	Not relevant.
Comments, Spontaneous combustability	Not relevant.
Decomposition temperature	Value: > 60 °C

	Method of testing: Self Accelerating Decomposition Temperature
Viscosity	Value: < 50 mPa s
Explosive properties	Not explosive.
Oxidising properties	Strong oxidiser.

9.2. Other information

Other physical and chemical properties

Comments	No data recorded.
----------	-------------------

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The product is a strong oxidizing agent that is stable under normal conditions. When heated there is a risk of decomposition. In contact with incompatible materials there is a risk of exothermic decomposition (self-increasing).
------------	---

10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
-----------	---

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Degradation products are water and oxygen, which in closed containers and pipes can cause pressure rise and explosion hazard. The released oxygen can also be oxidizing. The product is stabilized. Reacts strongly with strong acids, bases, organic chemicals and certain metal combinations. Reacts strongly with water. Liberates toxic gases when mixed with chlorine containing products.
------------------------------------	--

10.4. Conditions to avoid

Conditions to avoid	Decomposes when exposed to heat. Strong oxidiser - avoid contact with reducing agents. Avoid exposure to high temperatures or direct sunlight. Chlorine containing products.
---------------------	---

10.5. Incompatible materials

Materials to avoid	Flammable/combustible material. Alkali metals.
--------------------	---

10.6. Hazardous decomposition products

Hazardous decomposition products	Fire or high temperatures create: Oxygen.
----------------------------------	---

Other information

Other Information	Undiluted, the product may be corrosive to metals. When used in the recommended dosages, contact time and temperature, the product is compatible with acid-proof stainless steels.
-------------------	---

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data	Toxicological tests on the product has not been performed.
--------------------------	--

Toxicological data for substances

Substance	Hydrogen peroxide
LD50 oral	Value: 563,5 mg/kg Test reference: OECD Guideline 401 Comments: ECHA
LD50 dermal	Value: > 2000 mg/kg Animal test species: Rabbit Duration: 24h

	Comments: ECHA
LC50 inhalation	Value: 1,5 mg/l Comments: ATE - class.
Skin corrosion / irritation	Species: Rabbit. Result: Corrosive to skin. Method of testing: OECD 404
Serious eye damage / irritation	Irreversible eye damage.
Substance	Peracetic Acid
LD50 oral	Value: 100 mg/kg bw/d Animal test species: - Duration: - Test reference: - Comments: ATE, 01-2119531330-56-xxxx
LD50 dermal	Value: 1100 mg/kg bw/d Animal test species: - Duration: - Test reference: - Comments: ATE, 01-2119531330-56-xxxx
LC50 inhalation	Value: 0,512 mg/l Animal test species: - Duration: 4h Test reference: - Comments: Exp Supporting Acute toxicity: inhalation.013, 01-2119531330-56-xxxx
Skin corrosion / irritation	Species: Not known. Result: Corrosive to skin. Method of testing: Not known.
Serious eye damage / irritation	Species: Not known. Result: Corrosive to eyes. Method of testing: Not known.
Respiratory or skin sensitisation	Result: Not Sensitising.
Substance	Acetic acid ...%
LD50 oral	Value: 3530 mg/kg Animal test species: rat Duration: single dose Test reference: - Comments: ECHA
LD50 dermal	Value: > 2000 mg/kg Animal test species: rabbit Duration: - Test reference: - Comments: HSDB
LC50 inhalation	Value: 5620 ppm Animal test species: mouse Duration: 1 h Test reference: - Comments: ECHA
Skin corrosion / irritation	Species: Not known. Result: Corrosive to skin. Method of testing: Not known.
Serious eye damage / irritation	Species: Not known. Result: Corrosive to eyes. Method of testing: Not known.
Respiratory or skin sensitisation	Result: Not Sensitising.

Other information regarding health hazards

General	This substance is corrosive.
---------	------------------------------

Potential acute effects

Inhalation	Harmful if inhaled. Aerosols irritate the respiratory system, and may cause coughing and
------------	---

	difficulties in breathing.
Skin contact	Strongly corrosive. May cause deep tissue damage.
Eye contact	Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.
Ingestion	May cause burns in mucous membranes, throat, oesophagus and stomach. Harmful if swallowed.
Aspiration hazard	No evidence for aspiration hazard.

Delayed effects / repeated exposure

Sensitisation	No evidence for respiratory nor skin sensitization.
STOT-repeated exposure	No evidence for STOT-repeated exposure.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	No evidence for carcinogenicity.
Mutagenicity	No evidence for germ cell mutagenicity.
Reproductive toxicity	No evidence for reproductive toxicity.

Symptoms of Exposure

Symptoms of overexposure	No specific symptoms noted.
--------------------------	-----------------------------

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	The product contains a substance which is very toxic to aquatic organisms. Contains a substance (Aquatic Acute 1; H400 or Aquatic Chronic 1; H410) that falls within the scope of the multiplication factor rule. Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms.
Aquatic, comments	No data available for the product.

Toxicological data for substances

Substance	Peracetic Acid
Acute aquatic, fish	Value: 1,1 mg/L (LC50) Species: Lepomis macrochirus Duration: 96h Test reference: Assessment report PAA
Acute aquatic, algae	Value: 0,16 mg/L (EC50) Species: Selenastrum capricornutum Duration: 72h Test reference: Assessment report PAA
Acute aquatic, Daphnia	Value: 0,73 mg/L (EC50) Species: Daphnia Magna Test reference: Assessment report PAA
Other ecotoxicological substance information regarding fish	NOEC = 0,00069 mg/l (Zebra fish, 33d, Post-hatch succes, overall survival) NOEC = 0,061 mg/l (Selenastrum capricornutum, 72h, Groth inhibition) NOEC = 0,0121 mg/l (Daphnia magna, 21d, reproduction)
Mobility, description	Mobility, description: The product is miscible with water. May spread in water systems.
Persistence and degradability	The product is degraded completely by hydrolysis.
Biodegradability	Value: > 70 % Test period: 28 d Method of testing: OECD 301 E
Bioaccumulation	Will not bio-accumulate.
Result of PBT assessment for the substance	Not Classified as PBT/vPvB by current EU criteria.
Environmental details, summation	Product is very toxic to aquatic organisms, may cause long-term adverse

	effects in the aquatic environment.
Substance	Acetic acid ...%
Acute aquatic, fish	Value: 301 mg/l Method of testing: LC50
Acute aquatic, algae	Value: 301 mg/l Method of testing: LC50
Mobility, description	Mobility, description: The product is miscible with water. May spread in water systems.
Persistence and degradability	The product is easily biodegradable.
Bioaccumulation	Bioaccumulation: Is not expected to be bioaccumulable.

12.2. Persistence and degradability

Persistence and degradability	The product is easily biodegradable.
-------------------------------	--------------------------------------

12.3. Bioaccumulative potential

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
---------------------------	---

12.4. Mobility in soil

Mobility	The product is water soluble and may spread in water systems.
----------	---

12.5. Results of PBT and vPvB assessment

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
------------------------	--

12.6. Other adverse effects

Environmental details, summation	Product is very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
----------------------------------	---

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements. -
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
Other Information	When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste code applies to product remnants in pure form.

SECTION 14: Transport information

14.1. UN number

ADR / RID / ADN	3109
RID	3109
IMDG	3109
ICAO/IATA	3109

14.2. UN proper shipping name

ADR	ORGANIC PEROXIDE TYPE F, LIQUID (PEROXYACETIC ACID, TYPE F, stabilized)
RID	ORGANIC PEROXIDE TYPE F, LIQUID (PEROXYACETIC ACID, TYPE F, stabilized)
IMDG	ORGANIC PEROXIDE TYPE F, LIQUID (PEROXYACETIC ACID, TYPE F,

	STABILIZED)
ICAO/IATA	ORGANIC PEROXIDE TYPE F, LIQUID (PEROXYACETIC ACID, TYPE F, STABILIZED)
Comments	Self Accelerating Decomposition Temperature (SADT): >60 °C

14.3. Transport hazard class(es)

ADR / RID / ADN	5.2 (8)
RID	5.2 (8)
IMDG	5.2 (8)
ICAO/IATA	5.2 (8)

14.4. Packing group

Comments	Not relevant.
----------	---------------

14.5. Environmental hazards

ADR	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
RID	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
IMDG	Danger label for "Environmental hazard" should be used if packagings with more than 5 liters or 5 kilos are transported.
IMDG Marine pollutant	Yes

14.6. Special precautions for user

EmS	F-J, S-R
-----	----------

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

ADR / RID - Other information

Hazard no.	539
------------	-----

SECTION 15: Regulatory information

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

Other Label Information	For professional users only. As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). EH40/2005, Workplace exposure limits 2005, with amendments. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents. REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND

OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products.

15.2. Chemical safety assessment

Chemical safety assessment performed No

SECTION 16: Other information

Hazard symbol



Corrosive

R-phrases	R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R35 Causes severe burns.
S-phrases	S3/7 Keep container tightly closed in a cool place. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S50 Do not mix with chlorine.
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Org. Perox EF; H242; Met. Corr. 1; H290; Acute tox. 4; H302; Skin Corr 1A; H314; Eye Dam. 1; H318; Acute tox. 4; H332; STOT SE3; H335; Aquatic Chronic 1; H410;
List of relevant R-phrases (under headings 2 and 3).	R5 Heating may cause an explosion. R8 Contact with combustible material may cause fire. R20/22 Harmful by inhalation and if swallowed. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R35 Causes severe burns. R10 Flammable.
List of relevant H-phrases (Section 2 and 3).	H318 Causes Serious eye damage. H302 Harmful if swallowed. H242 Heating may cause a fire. H290 May be corrosive to metals. H331 Toxic if inhaled. H226 Flammable liquid and vapour. H400 Very toxic to aquatic life. H335 May cause respiratory irritation. H314 Causes severe skin burns and eye damage. H301 Toxic if swallowed. H332 Harmful if inhaled. H312 Harmful in contact with skin. H410 Very toxic to aquatic life with long lasting effects. H271 May cause fire or explosion; strong oxidiser.
Training advice	No particular training or education is required but the user must be familiar with this SDS. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety

	instructions.
Information which has been added, deleted or revised	Change to Sections: 1, 14, 16
Version	11
Responsible for safety data sheet	Novadan ApS
Prepared by	MP