

NOVADAN®**SAFETY DATA SHEET****NOVADAN®****Hydrogenperoxid, (Interox AG-Bath 35), (Interox AG-Spray 35)**

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued	25.06.2013
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Revision date	06.10.2015
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1.1. Product identifier

Product name	Hydrogenperoxid, (Interox AG-Bath 35), (Interox AG-Spray 35)
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Article no.	60154, 60168, 60169
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product group	Oxidising disinfectant.
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Use of the substance/preparation	Disinfectant.
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Relevant identified uses	SU4 Manufacture of food products SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites PC8 Biocidal Products (e.g. Disinfectants, pest control) PC34 Textile dyes, finishing and impregnating products; including bleaches and other processing aids PROC2 Use in closed, continuous process with occasional controlled exposure ERC6B Industrial use of reactive processing aids
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Uses advised against	No specific uses advised against are identified.
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1.3. Details of the supplier of the safety data sheet**Manufacturer**

Company name	Solvay Chemicals International
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Postal address	Rue de Ransbeek, 310
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Postcode	B-1120
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City	Brussels
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Country	Belgium
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Distributor

Company name	Novadan ApS
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Postal address	Platinvej 21
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Postcode	DK-6000
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City	Kolding
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Country	Danmark
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Tel	+ 45 76 34 84 00
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Fax	+ 45 75 50 43 70
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E-mail	sds@novadan.dk
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Website	http://www.novadan.dk
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1.4. Emergency telephone number

Emergency telephone	Link to national poison centers: http://echa.europa.eu/help/nationalhelp_contact_en.asp
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SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Acute tox. 4;H302; Skin Irrit. 2;H315; Eye Dam. 1;H318; STOT SE3;H335;
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:35 %
Signal word	Danger
Hazard statements	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes Serious eye damage. H335 May cause respiratory irritation.
Precautionary statements	P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P310 Immediately call a POISON CENTER or doctor/physician. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

2.3. Other hazards

Health effect	May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY. Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness. See section 11 for additional information on health hazards.
Environmental effects	This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Hydrogen peroxide solution ...%	CAS no.: 7722-84-1 EC no.: 231-765-0 Index no.: 008-003-00-9 Synonyms: Hydrogen peroxide	Ox. Liq. 1; H271 Acute tox. 4; H332 Acute tox. 4; H302 Skin Corr. 1A; H314 Note : B	30 - 60 %
Substance comments	>30%: Disinfectant . The Full Text for all R-Phrases and Hazard Statements are 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	Fresh air. Get medical attention if any discomfort continues.
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 equipment for first aid responders	Wear necessary protective equipment. For personal protection, see section 8.

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	No known long term effects.

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.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
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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.
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	Wear necessary protective equipment. For personal protection, see section 8.
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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.
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6.3. Methods and material for containment and cleaning up

Cleaning method	Collect with absorbent, non-combustible material into suitable containers. Wash contaminated area with water.
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6.4. Reference to other sections

Other instructions	See section 8 and section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Avoid spilling, skin and eye contact. Oxidising material - Keep away from flammable and combustible materials. Avoid excessive heat.
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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. 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 Stability	Durability: 36 months.
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7.3. Specific end use(s)

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

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

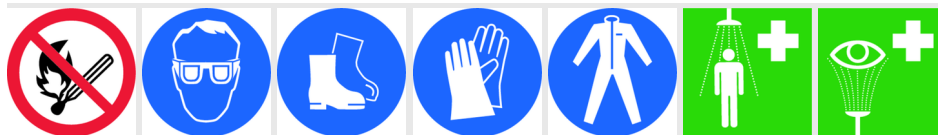
DNEL / PNEC

Summary of risk management measures, environment	Data lacking.
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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. Provide sufficient ventilation during operations which cause vapour formation. An eye wash bottle must be available at the work site.

Safety signs



Respiratory protection

Respiratory protection	In case of inadequate ventilation use suitable respirator. Type NO-P3.
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Hand protection

Hand protection	Use protective gloves made of: Butyl rubber. Neoprene. Nitrile.
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).
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Skin protection

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

Thermal hazards	See section 5.
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Appropriate environmental exposure control

Environmental exposure controls	See section 6.
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Other Information

Other Information	DO NOT SMOKE IN WORK AREA!
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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.
pH (as supplied)	Value: ~ 2,0
pH (aqueous solution)	Value: ~ 6,0
Comments, pH (aqueous solution)	1%
Melting point/melting range	Value: -33 °C
Boiling point / boiling range	Value: 108 °C
Comments, Flash point	Not relevant.
Comments, Evaporation rate	Not relevant.
Flammability (solid, gas)	Not relevant.
Comments, Explosion limit	Not relevant.
Vapour density	Value: 1
Bulk density	Value: ~ 1,15 kg/l

Solubility description	Completely soluble in water.
Partition coefficient: n-octanol/water	Value: -1,57
Comments, Spontaneous combustability	Not relevant.
Comments, Decomposition temperature	SADT=>60°C
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.
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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).
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10.2. Chemical stability

Stability	See section 10.1.
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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.
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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.
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10.5. Incompatible materials

Materials to avoid	Flammable/combustible material. Alkali metals.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Fire or high temperatures create: Oxygen.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

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

Other information regarding health hazards

General	Contact with this chemical can be hazardous.
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Potential acute effects

Inhalation	Aerosols irritate the respiratory system, and may cause coughing and difficulties in breathing.
Skin contact	Strongly irritating. Prolonged contact may cause burns.
Eye contact	Strongly irritating. Immediate first aid is necessary. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.
Ingestion	Harmful: possible risk of irreversible effects if swallowed. Corrosive. Even small amounts may cause serious damage.

Symptoms of Exposure

Symptoms of overexposure	No specific symptoms noted.
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SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	No information available.
Aquatic, comments	No data available for the product.

Toxicological data for substances

12.2. Persistence and degradability

Persistence and degradability	The product solely consists of inorganic compounds which are not biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
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12.4. Mobility in soil

Mobility	The product is water soluble and may spread in water systems.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
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12.6. Other adverse effects

Environmental details, summation	For this product no classification is required for environmental hazards.
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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	2014
RID	2014
IMDG	2014
ICAO/IATA	2014

14.2. UN proper shipping name

ADR	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
RID	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
IMDG	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
ICAO/IATA	HYDROGEN PEROXIDE, AQUEOUS SOLUTION

14.3. Transport hazard class(es)

ADR	5.1 (8)
Hazard no.	58
RID	5.1 (8)
IMDG	5.1 (8)
ICAO/IATA	5.1 (8)

14.4. Packing group

ADR	II
RID	II
IMDG	II
ICAO/IATA	II

14.5. Environmental hazards

IMDG Marine pollutant	No
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14.6. Special precautions for user

EmS	F-H, S-Q
Special safety precautions for user	Not relevant.

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

Additional information.	Not relevant.
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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). 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 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.
 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. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Acute tox. 4; H302; Skin Irrit. 2; H315; Eye Dam. 1; H318; STOT SE3; H335;
List of relevant H-phrases (Section 2 and 3).	H318 Causes Serious eye damage. H302 Harmful if swallowed. H315 Causes skin irritation. H335 May cause respiratory irritation. H314 Causes severe skin burns and eye damage. H332 Harmful if inhaled. 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, 9, 11, 12, 15, 16
Version	1
Responsible for safety data sheet	Novadan ApS
Prepared by	MP