

NOVADAN®	SAFETY DATA SHEET	NOVADAN®
	IPA Sprit 70%	

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 12.06.2018

Revision date 12.04.2021

1.1. Product identifier

Product name IPA Sprit 70%

UFI C2W1-N04A-400A-X626

Article no. 12341, 31551

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

Product group Disinfectant.

Main intended use PP-BIO-4 Biocidal products for food and feed area

Relevant identified uses
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)
PROC11 Non-industrial spraying
PROC19 Manual activities involving hand contact.
ERC8B Wide dispersive indoor use of reactive substances in open systems

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Producer

Company name Novadan ApS

Postal address Platinvej 21

Postcode DK-6000

City Kolding

Country Danmark

Telephone number + 45 76 34 84 00

Fax	+ 45 75 50 43 70
Email	sds@novadan.dk
Website	www.novadan.dk

1.4. Emergency telephone number

Emergency telephone	Description: UK: NHS: 111 EI: National Poisons Information Centre, 24/7: 01 809 2166
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Flam. Liq. 2; H225; Calculation method
Substance / mixture hazardous properties	For further information, please refer to section 11.

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label	Ethanol, Propan-2-ol
Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour.
Precautionary statements	P210 Keep away from heat / sparks / open flames / hot surfaces. – No smoking. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
Supplemental label information	For professional users only. Read attached instructions before use.
Other EU labelling requirements	Ethanol 610 g/kg (61 w/w %), Propan-2-ol <100 g/kg (<10 w/w %)

2.3. Other hazards

Hazard description, general	The product is highly flammable and may be ignited even after short contact with an ignition source.
Health effect	Splashes in the eyes may cause redness and irritation. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Environmental effects	This product does not contain any PBT or vPvB substances.
Other hazards	No evidence for endocrine disrupting properties.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 REACH Reg. No.: 01-2119457610-43-xxxx	Flam. Liq. 2; H225	60 – 80 %	
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH Reg. No.: 01-2119457558-25-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	< 10 %	

Substance comments	Ethanol og propan-2-ol er optaget på Arbejdstilsynets liste over organiske opløsningsmidler. Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents: >60% Disinfectant The full text for all hazard statements is displayed in section 16.
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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	Rinse with water. Contact physician if discomfort continues.
Eye contact	Immediately rinse with water for several minutes. Make sure to remove any contact lenses from the eyes before rinsing. Contact physician if irritation persists.
Ingestion	Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.
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	Eye contact may cause: May irritate and cause redness and pain.
Delayed symptoms and effects	Inhalation of high vapour concentrations may cause symptoms such as mild irritation, headache, dizziness, fatigue, nausea and in serious cases unconsciousness.

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

Other information	If unconscious: Call an ambulance/physician immediately. Show this Safety Data Sheet.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
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Improper extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures. Closed containers can burst violently when heated, due to excess pressure build-up. During fire, gases hazardous to health may be formed.

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.
Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures.
Containers close to fire should be removed immediately 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. Do not smoke or use open fire, or other sources of ignition.

6.2. Environmental precautions

Environmental precautionary measures

Avoid discharge into 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

Smaller quantities of residue may be collected by an absorbent. 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. Keep away from heat, sparks and open flame.

Protective safety measures

Advice on general occupational hygiene

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.
Eating, smoking and water fountains prohibited in immediate work area.
Take off contaminated clothing and personal protective equipment before entering an eating area..

7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in tightly closed original container in a well-ventilated place. Do not store near heat sources or exposed to high temperatures.

Conditions for safe storage

Storage temperature

Value: -15 – 20 °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

Substance	Identification	Exposure limits	TWA Year
Ethanol	CAS No.: 64-17-5	Limit value (8 h) : 1000 ppm Limit value (8 h) : 1920 mg/ m ³	TWA Year: 2018
Propan-2-ol	CAS No.: 67-63-0	Limit value (8 h) : 200 ppm Limit value (8 h) : 490 mg/ m ³	TWA Year: 2011

DNEL / PNEC

Substance

Ethanol

DNEL

Group: Consumer**Route of exposure:** Long-term oral (systemic)**Value:** 87 mg/kg bw/day**Reference:** ECHA**Group:** Professional**Route of exposure:** Acute inhalation (local)**Value:** 1900 mg/m³**Reference:** ECHA**Group:** Professional**Route of exposure:** Long-term dermal (systemic)**Value:** 343 mg/kg bw/day**Reference:** ECHA**Group:** Professional**Route of exposure:** Long-term inhalation (systemic)**Value:** 950 mg/m³**Reference:** ECHA**Group:** Consumer**Route of exposure:** Long-term inhalation (systemic)**Value:** 114 mg/m³**Reference:** ECHA**Group:** Consumer

PNEC

Route of exposure: Acute inhalation (local)**Value:** 950 mg/m³**Reference:** ECHA**Group:** Consumer**Route of exposure:** Long-term dermal (systemic)**Value:** 206 mg/kg bw/day**Reference:** ECHA**Route of exposure:** Sediment**Value:** 2,9 mg/L**Route of exposure:** Water**Value:** 0,96 mg/L**Route of exposure:** Water**Value:** 0,79 mg/L**Route of exposure:** Water**Value:** 2,75 mg/L**Route of exposure:** Sewage treatment plant STP**Value:** 580 mg/L**Route of exposure:** Sediment**Value:** 3,6 mg/kg sediment dw**Route of exposure:** Soil**Value:** 0,63 mg/kg soil dw**Reference:** ECHA

Substance

Propan-2-ol

DNEL

Group: Consumer**Route of exposure:** Long-term inhalation (systemic)**Value:** 89 mg/m³**Reference:** ECHA**Group:** Professional**Route of exposure:** Long-term dermal (systemic)**Value:** 888 mg/kg bw/day**Reference:** ECHA**Group:** Professional**Route of exposure:** Long-term inhalation (systemic)**Value:** 500 mg/m³**Reference:** ECHA**Group:** Consumer**Route of exposure:** Long-term dermal (systemic)**Value:** 319 mg/kg bw/day**Reference:** ECHA**Group:** Consumer**Route of exposure:** Long-term oral (systemic)**Value:** 26 mg/kg bw/day**Reference:** ECHA

PNEC

Route of exposure: Sewage treatment plant STP**Value:** 2251 mg/l**Route of exposure:** Soil**Value:** 25 mg/kg**Route of exposure:** Freshwater**Value:** 140,9 mg/l**Route of exposure:** Saltwater sediments**Value:** 552 mg/kg**Route of exposure:** Freshwater sediments**Value:** 552 mg/kg**Route of exposure:** Saltwater**Value:** 140,9 mg/l**Value:** 140,9**Reference:** Intermittent releases

8.2. Exposure controls

Safety signs



Precautionary measures to prevent exposure

Technical measures to prevent exposure

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye / face protection

Suitable eye protection

Eye protection is not required under normal conditions.

Hand protection

Skin- / hand protection, long term contact

Protective gloves are recommended.
Use protective gloves made of:
Nitrile. $\geq 0,4$ mm
EN 374.

Breakthrough time

Value: ≥ 480 minute(s)

Hand protection, comments

Manufacturer's directions for use should be observed because of great diversity of types.
The recommendation is a qualified estimate based on knowledge of the components.

Skin protection

Additional skin protection measures

No special precautions.

Respiratory protection

Respiratory protection necessary at Under normal conditions of use respiration protection should not be required.

Thermal hazards

Thermal hazards See section 5.

Appropriate environmental exposure control

Environmental exposure controls See section 6.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid.
Colour	Colourless.
Odour	Odour of alcohol.
Odour limit	Comments: No data recorded.
pH	Status: In aqueous solution Comments: No data recorded.
Melting point / melting range	Comments: Not relevant.
Boiling point / boiling range	Comments: Not relevant.
Flash point	Value: < 22 °C Comments: Fire hazard classification: II-2.
Evaporation rate	Comments: Not relevant.
Flammability	Not relevant.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not relevant.
Vapour density	Comments: Not relevant.
Relative density	Value: ~ 0,80 kg/l
Solubility	Comments: Completely soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not relevant.
Auto-ignition temperature	Comments: Not relevant.
Decomposition temperature	Comments: Not relevant.
Viscosity	Value: < 50 mPa s
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

9.2.2. Other safety characteristics

Comments

No data recorded.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

See section 10.4 and section 10.5.

10.4. Conditions to avoid

Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid

Strong acids. Strong alkalis. Stærke oxidations- og reduktionsmidler.

10.6. Hazardous decomposition products

Hazardous decomposition products

During fire, toxic gases (CO, CO₂) are formed.

Other information

Other information

No data recorded.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance

Ethanol

Acute toxicity

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Oral
Value: 10470 mg/kg
Animal test species: Rat
Test reference: OECD Guideline 401

Type of toxicity: Acute
Effect tested: LC50
Route of exposure: Inhalation.
Duration: 4 hour(s)
Value: 117 -125 mg/L
Animal test species: Rat
Test reference: OECD Guideline 401

Substance	Propan-2-ol
Acute toxicity	<p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: 5840 mg/kg Animal test species: Rat Test reference: OECD Guideline 401 Comments: ECHA</p> <p>Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Duration: 6 hour(s) Value: > 10000 ppm Animal test species: Rat Test reference: OECD Guideline 403 Comments: ECHA</p> <p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Duration: 24 hour(s) Value: 16,4 ml/kg Animal test species: Rabbit Test reference: OECD Guideline 402 Comments: ECHA</p>
Other toxicological data	Toxicological tests on the product has not been performed.

Other information regarding health hazards

Assessment of acute toxicity, classification	No evidence for acute toxicity.
Substance	Propan-2-ol
Eye damage or irritation, test results	<p>Toxicity type: Eye irritation Method: OECD 405 Species: Rabbit Evaluation result: Result: Irritation to eye.</p>
Inhalation	In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.
Skin contact	May cause defatting of the skin, but is not an irritant.
Eye contact	Splashes will irritate and cause redness and pain.
Ingestion	Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea.
Sensitisation	No evidence for respiratory nor skin sensitization.
Assessment of germ cell mutagenicity, classification	No evidence for germ cell mutagenicity.
Assessment of carcinogenicity, classification	No evidence for carcinogenicity.
Assessment of reproductive toxicity, classification	No evidence for reproductive toxicity.

Assessment of specific target organ toxicity - single exposure, classification

No evidence for STOT-single exposure.

Assessment of specific target organ toxicity - repeated exposure, classification

No evidence for STOT-repeated exposure.

Assessment of aspiration hazard, classification

No evidence for aspiration hazard.

11.2 Other information

Endocrine disruption

No evidence for endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Substance

Propan-2-ol

Aquatic toxicity, fish

Value: 8970 – 9280 mg/l
Test duration: 48 hour(s)
Species: Leuciscus idus melanotus
Method: LC50

Substance

Propan-2-ol

Aquatic toxicity, algae

Value: 1800 mg/l
Test duration: 8 day(s)
Species: Scenedesmus quadricauda
Method: TGK

Substance

Propan-2-ol

Aquatic toxicity, crustacean

Value: 9715 mg/l
Test duration: 24 hour(s)
Species: Daphnia magna
Method: LC50

Ecotoxicity

Not classified as dangerous to the environment.

12.2. Persistence and degradability

Persistence and degradability description/evaluation

The product is easily biodegradable.

Substance

Propan-2-ol

Biodegradability

Value: 95 %
Method: OECD 301E
Test period: 21 day(s)

12.3. Bioaccumulative potential

Bioaccumulation, evaluation

The product is not bioaccumulating.

12.4. Mobility in soil

Mobility

The product is miscible with water. May spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Not Classified as PBT/vPvB by current EU criteria.

12.6. Endocrine disrupting properties

Endocrine disrupting properties No evidence for endocrine disrupting properties.

12.7. Other adverse effects

Additional ecological information No information.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	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. -
Appropriate methods of disposal for the contaminated packaging	Dispose unused product and the packaging in accordance with local requirements.
EWC waste code	EWC waste code: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics Classified as hazardous waste: Yes
EWL packing	EWC waste code: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics Classified as hazardous waste: Yes
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

Dangerous goods Yes

14.1. UN number

ADR/RID/ADN	1987
IMDG	1987
ICAO/IATA	1987

14.2. UN proper shipping name

Proper shipping name English ADR/RID/ADN	ALCOHOLS, N.O.S.
Technical name/Danger releasing substance English ADR/RID/ADN	Ethanol, Isopropanol
ADR/RID/ADN	ALCOHOLS, N.O.S.
Technical name/danger releasing substance ADR/RID/ADN	Ethanol, Isopropanol

IMDG	ALCOHOLS, N.O.S.
Technical name/danger releasing substance IMDG	Ethanol, Isopropanol
ICAO/IATA	ALCOHOLS, N.O.S.
Technical name/danger releasing substance ICAO/IATA	Ethanol, Isopropanol

14.3. Transport hazard class(es)

ADR/RID/ADN	3
Classification code ADR/RID/ADN	F1
IMDG	3
ICAO/IATA	3

14.4. Packing group

ADR/RID/ADN	II
IMDG	II
ICAO/IATA	II

14.5. Environmental hazards

IMDG Marine pollutant	No
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14.6. Special precautions for user

Special safety precautions for user	Not relevant.
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14.7. Maritime transport in bulk according to IMO instruments

Product name	ALCOHOLS, N.O.S.
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Additional information

Hazard label ADR/RID/ADN	3
Hazard label IMDG	3
Hazard label ICAO/IATA	3

ADR/RID Other information

Tunnel restriction code	D/E
Transport category	2
Hazard No.	33

IMDG Other information

EmS	F-E, S-D
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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.
Biocides	Yes
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242), with amendments. 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
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SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
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 added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
Version	2
Prepared by	MP