Safety Data Sheet

in accordance with REACH Regulation (EC) 1907/2006 including Amendment Regulation (EU) 2020/878 Date of issue: February 22, 2022 Version: 1.0

SECTION 1: Identification of the substance or mixture and of the company

1.1. Product identifier

Product form : Mixture
Product name : Enavit N

Product code : 02.09932.02.1-001 / 02.09932.28.1-001
Product type : Combined cleaning and care product.

Product group : Commercial product

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

1.2.1. Relevant identified uses

Main use category : Industrial use

Use of the substance/mixture : Other cleaning, care, and maintenance products (excluding

biocidal products)

1.2.2. Uses advised against

No further information available

1.3. Details of the supplier providing the safety data sheet

Distributor

Kitotec GmbH Carl-Zeiss-Strasse 11 D-53340 Meckenheim

info@kitotec.biz - www.kitotec.shop

1.4. Emergency telephone number

Country	Organization/company	Address	Emergency number	Note
Switzerland	Tox Info Suisse	Freiestrasse 16 8032 Zurich	145	(from abroad: +41 44 251 51 51) Information: +41 44 251 66 66

SECTION 2: Potential hazards

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225

Serious eye damage/eye irritation, Category 2 H319

Wording of H and EUH statements: see Section 16

Harmful physicochemical, health, and environmental effects

No further information available

2.2. Labeling elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





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GHS02 GHS07

Signal word (CLP) : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames, and other ignition

sources. No smoking. P280 - Wear eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

Does not contain any PBT/vPvB substances ≥ 0.1%, assessed in accordance with REACH Annex XIII.

The mixture does not contain any substances listed in REACH Article 59(1) due to their endocrine-disrupting properties, or it has been determined in accordance with the criteria of Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol; ethyl alcohol Substance with national occupational exposure limit (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SI, SK)	CAS No.: 64-17-5 EC No.: 200-578-6 EC Index No.: 603-002-00-5 REACH No.: 01-2119457610- 43	≥ 50	Flam. Liq. 2, H225
2-propanol; isopropyl alcohol; isopropanol Substance with national occupational exposure limit (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SI, SK)	CAS No.: 67-63-0 EC No.: 200-661-7 EC Index No.: 603-117-00-0 REACH No.: 01-2119457558- 25	≥ 10 – < 15	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Wording of H and EUH statements: see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First aid measures after inhalation : Move the person to fresh air and ensure unobstructed breathing.

First aid measures after skin contact : Wash skin with water/shower. Immediately remove all contaminated clothing

First aid measures after eye contact : Rinse gently with water for several minutes. Remove any contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Seek medical

advice/attention.

First aid measures after swallowing : If you feel unwell, call a poison control center or doctor.

4.2. Most important acute and delayed symptoms and effects

Symptoms/effects after eye contact : Eye irritation.

4.3. Indications for immediate medical attention or special treatment

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Water jet

5.2. Special hazards arising from the substance or mixture

Fire hazard : Liquid and vapor are highly flammable. Hazardous decomposition products in case of fire : Possible release of toxic fumes.

5.3. Firefighting instructions

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

. Full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

6.1.1. Personnel not trained for emergencies

Emergency measures : Ventilate contaminated area. No open flames, sparks, or smoking.

Avoid contact with eyes and skin.

6.1.2. Emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Further information: see

Section 8 "Exposure controls/personal protection".

Protective Equipment."

6.2. Environmental precautions

Avoid release to the environment.

Other information

6.3. Methods and material for containment and cleaning up

Cleaning procedures : Absorb spilled liquid with absorbent material. If the product enters the

sewer system or public waterways, notify the authorities.

Dispose of solid residues or residues to an approved facility.

6.4. Reference to other sections

For further information on disposal, see Section 13. Further information: see Section 8 "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Protective measures for safe handling

Protective measures for safe handling : Ensure good ventilation of the workplace. Keep away from heat, hot surfaces, sparks, open

flames, and other sources of ignition. No smoking. Ground the container and the equipment to be filled. Use only non-sparking tools. Take measures against electrostatic discharge. Flammable vapors may form in the container. Use explosion-proof equipment. Wear personal protective

equipment.

Avoid contact with eyes and skin.

Hygiene measures : Do not eat, drink, or smoke during use. Always wash hands after handling the product

wash hands.

7.2. Conditions for safe storage, taking into account incompatibilities

Technical measures : Ground the container and the system to be filled.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

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7.3. Specific end uses

No further information available

SECTION 8: Exposure controls/personal protective equipment

8.1. Parameters to be monitored

8.1.1 National occupational exposure limits and biological limits

Ethanol; Ethyl alcohol (64-17-5)				
Switzerland - Occupational exposure limit				
Local name	Ethanol / Ethanol [Ethyl alcohol]			
MAK (OEL TWA) [1]	960 mg/m³			
MAK (OEL TWA) [2]	500 ppm			
KZGW (OEL STEL)	1920 mg/m³			
KZGW (OEL STEL) [ppm]	1000 ppm			
Critical toxicity	Formal			
Notation	SSC			
Note	INRS, NIOSH			
Legal reference	www.suva.ch (National Institute for Occupational Safety and Health), January 1, 2021			
2-Propanol; Isopropyl alcohol; Isopropanol (67-63-0)				
Switzerland - Occupational exposure limits				
Local name	2-propanol / 2-propanol [iso-propyl alcohol, isopropanol, isopropyl alcohol]			
MAK (OEL TWA) [1]	500 mg/m			
MAK (OEL TWA) [2]	200 ppm			
KZGW (OEL STEL)	1000 mg/m³			
KZGW (OEL STEL) [ppm]	400 ppm			
Critical toxicity	OAW, liver, CNS, eye			
Notation	ssc, B			
Note	INRS, NIOSH			
Legal reference	www.suva.ch (Federal Office of Agriculture), January 1, 2021			
Switzerland - BAT (BLV)				
Local name	2-propanol / 2-propanol			
BAT (BLV)	25 mg/l (0.4 mmol/l; biological parameter: acetone; test material: whole blood; sampling time: end of exposure or end of shift). 25 mg/l (0.4 mmol/l; biological parameter: acetone; test material: urine; sampling time: end of exposure or end of shift).			
Legal reference	Ordonnance 832.30 (OPA), article 50 al. 3,www.suva.ch/valeurs-limites / Ordinance 832.30 (VUV), Art. 50 para. 3, www.suva.ch/grenzwerte			

8.1.2. Recommended monitoring procedures

No further information available

8.1.3. Air pollutants released

No further information available

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8.1.4. DNEL and PNEC values

No further information available

8.1.5. Control band

No further information available

8.2. Limitation and monitoring of exposure

8.2.1. Appropriate technical control measures

Appropriate engineering controls:

Ensure good ventilation of the workplace.

8.2.2. Personal protective equipment

Personal protective equipment - symbol(s):





8.2.2.1. Eye and face protection

Eye protection:

Tight-fitting safety goggles (EN 166)

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing when working

Hand protection:

Chemical-resistant protective gloves. As the product is composed of several substances, the resistance of the material of the gloves can only be estimated and must be tested before use

Hand protection					
Type Material Permeation Thickness (mm) Penetration Standard					
	Butyl rubber	6 (>480 min)	≥ 0.5		EN ISO 374
	Fluorinated rubber (Viton)	6 (>480 min)	≥ 0.5		
	Neoprene	3 (> 60 min)	≥ 0.5		

8.2.2.3. Respiratory protection

Respiratory protection:

If workplace exposure limits are exceeded. Wear a suitable mask.

Respiratory protection				
Device	Filter type	Condition	Standard	
Half mask	Combination filter A - P2		EN 140	

8.2.2.4. Thermal hazards

No further information available

8.2.3. Limitation and monitoring of environmental exposure

Limitation and monitoring of environmental exposure:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid : Colorless. Color Odor : Alcoholic odor. Odor threshold : Not available Melting point : Not applicable Freezing point : Not available Boiling point : > 35 °C Flammability : Not applicable **Explosion limits** : Not available Lower explosion limit : Not available : Not available Upper explosion limit : < 23 °C Flash point : Not available Ignition temperature : Not available Decomposition temperature Not available рΗ Not available Viscosity, kinematic Not available Solubility Distribution coefficient n-octanol/water (Log Kow) Not available Vapor pressure Not available Vapor pressure at 50 °C Not available Density 0.81 Not available Relative density Not available Relative vapor density at 20 °C

9.2. Other information

Particle properties

9.2.1. Information on physical hazard classes

No further information available

9.2.2. Other safety-related parameters

No further information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Liquid and vapor are highly flammable.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions are known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No open flames, no sparks. Remove all sources of ignition.

: Not applicable

10.5. Incompatible materials

Strong oxidizing agents. Strong alkalis. Strong acids.

10.6. Hazardous decomposition products

Under normal storage and use conditions, no hazardous decomposition products should be formed.

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SECTION 11: Toxicological information

11.1. Information on hazard classes within the meaning of Regulation (EC) No. 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Ethanol; Ethyl alcohol (64-17-5)			
LD50 oral rat	15010 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 14450 - 15560		
LD50 oral	10470 mg/kg body weight		
LD50 dermal	15800 mg/kg body weight		
LC50 inhalation - rat (dust/mist)	> 99999 mg/l		

2-propanol; isopropyl alcohol; isopropanol (67-63-0)

LD50 oral rat	5840 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)		
LD50 oral	4396 mg/kg body weight		
LD50 dermal	12800 mg/kg body weight		
LC50 inhalation - rat (dust/mist)	46600 mg/l		

Corrosive/irritant effect on the skin : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory/skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity after single : Not classified

exposure

2-Propanol;	Isopropyl	l alcohol;	Isopropanol	(67-63-0)
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Specific target organ toxicity after single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity after repeated : Not classified exposure

Ethanol; ethyl alcohol (64-17-5)			
NOAEL (subchronic, oral, animal/male, 90 days)	< 9700 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)		
NOAEL (subchronic, oral, animal/female, 90 days)	> 9400 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)		

Aspiration hazard : Not classified

11.2. Information on other hazards

No further information available

SECTION 12: Environmental information

12.1. Toxicity

Ecology - General : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Hazardous to water, short-term (acute) : Not classified Hazardous to water, long-term (chronic) : Not classified

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Ethanol; ethyl alcohol (64-17-5)			
LC50 - Fish [1]	14200 mg/l		
EC50 - Other aquatic organisms [1]	5012 mg/l water flea		
EC50 - Other aquatic organisms [2]	275 mg/l		
NOEC (chronic)	9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d'		
2-propanol; isopropyl alcohol; isopropanol (67-63-0)			
LC50 - Fish [1] 9640			
LC50 - Fish [2] 9640 mg/l Test organisms (species): Pimephales promelas			
EC50 - Other aquatic organisms [1] 13299 mg/l water flea			
EC50 - Other aquatic organisms [2] > 1000 mg/l			

12.2. Persistence and degradability

No further information available

12.3. Bioaccumulative potential

Ethanol; ethyl alcohol (64-17-5)		
Distribution coefficient n-octanol/water (Log Pow) -0.32		
2-propanol; isopropyl alcohol; isopropanol (67-63-0)		
Distribution coefficient n-octanol/water (Log Pow) 0.05		

12.4. Mobility in soil

No further information available

12.5. Results of the PBT and vPvB assessment

No further information available

12.6. Endocrine-disrupting properties

No further information available

12.7. Other adverse effects

No further information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment procedures : Dispose of contents/container in accordance with the sorting instructions of the authorized collector.

Recommendations for disposal into wastewater : Do not allow to enter the sewage system.

Additional information : Flammable vapors may form in the container.

EAK code : 07 06 99 - Waste not otherwise specified

Switzerland - Recommendations : Disposal in accordance with the Technical Ordinance on Waste (TVA), the Ordinance on Waste

Transport (VeVA), and the DETEC Ordinance on Lists of Waste Transport

(LVA).

Switzerland - Waste code (VeVA) : 07 06 99 - Waste not otherwise specified

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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ADR	IMDG	IATA	ADN	RID		
14.1. UN number or ID number						
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993		
14.2. Proper UN shipping	name					
FLAMMABLE LIQUID, N.O.S. (ethanol, 2- propanol)	FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol; 2-propanol; isopropyl alcohol; isopropanol)	Flammable liquid, n.o.s. (ethanol; ethyl alcohol; propan-2-ol; isopropyl alcohol; isopropanol)	FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol; 2-propanol; isopropyl alcohol; isopropanol)	FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol; 2-propanol; isopropyl alcohol; isopropanol)		
Entry in the transport docume	ent					
UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, 2- propanol), 3, II, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol; 2-propanol; isopropyl alcohol; isopropanol), 3, II	UN 1993 Flammable liquid, n.o.s. (ethanol; ethyl alcohol; propan-2-ol; isopropyl alcohol; isopropanol), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol; 2-propanol; isopropyl alcohol; isopropanol), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol; 2-propanol; isopropyl alcohol; isopropanol), 3, II		
14.3. Transport hazard class	sses					
3	3	3	3	3		
3	3	3	3	3		
14.4. Packaging group						
II	II	II	II	II		
14.5. Environmental hazar	ds					
Environmentally hazardous: No	Environmentally hazardous: No Marine pollutant: No	Environmentally hazardous: No	Environmentally hazardous: No	Environmentally hazardous: No		
No additional information availa	ble		1			

14.6. Special precautions for users

Land transport

Classification code (ADR) : F1

Special provisions (ADR) : 274, 601, 640D

Limited quantities (ADR) : 1L Exempt quantities (ADR) : E2

Packaging instructions (ADR) : P001, IBC02, R001

Special provisions for mixed loading (ADR) : MP19

Instructions for portable tanks and bulk

containers (ADR) : T7

Special provisions for portable tanks and bulk

containers (ADR) : TP1, TP8, TP28

Tank coding (ADR) : LGBF
Vehicle for transport in tanks : FL
Transport category (ADR) : 2
Special provisions for transport and operation : S2, S20

(ADR)

Hazard identification number (Kemler number) : 33

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Orange plates : 33

1993

Tunnel restriction code (ADR) : D/E

Sea transport

 Special provision (IMDG)
 : 274

 Limited quantities (IMDG)
 : 1 L

 Exempted quantities (IMDG)
 : E2

 Packaging instructions (IMDG)
 : P001

 IBC packaging instructions (IMDG)
 : IBC02

 Tank instructions (IMDG)
 : T7

Special provisions for tanks (IMDG) : TP1, TP28, TP8

EmS No. (Fire) : F-E
EmS No. (unintentional release) : S-E
Stowage category (IMDG) : B

Air transport

PCA exempted quantities (IATA) : E2 PCA limited quantities (IATA) : Y341 PCA limited max. net quantity (IATA) : 1L PCA packaging regulations (IATA) : 353 PCA Maximum net quantity (IATA) : 5L CAO Packaging regulations (IATA) : 364 CAO Max. Net quantity (IATA) : 60L Special regulations (IATA) : A3 : 3H ERG code (IATA)

Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 274, 601, 640D

Limited quantities (ADN) : 1 L

Exempted quantities (ADN) : E2

Transport permitted (ADN) : T

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : F1

Special provision (RID) : 274, 601, 640D

Limited quantities (RID) : 1L Exempted quantities (RID) : E2

Packaging instructions (RID) : P001, IBC02, R001

Special provisions for mixed packing (RID) : MP19

Instructions for tank vehicles and bulk containers

(RID) : T7

Special provisions for tank vehicles and bulk

containers (RID) : TP1, TP8, TP28

 Tank codes for RID tanks (RID)
 : LGBF

 Transport category (RID)
 : 2

 Express goods (RID)
 : CE7

 Hazard identification number (RID)
 : 33

14.7. Bulk transport by sea in accordance with IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU regulations

Does not contain any substances subject to the restrictions of Annex XVII of the REACH Regulation Does not contain any REACH candidate substances

Does not contain any substances listed in Annex XIV of REACH

Does not contain any substances subject to Regulation (EU) No. 649/2012 of the European Parliament and of the Council of July 4, 2012, concerning the export and import of dangerous chemicals.

Does not contain any substances subject to Regulation (EU) No. 2019/1021 of the European Parliament and of the Council of June 20, 2019, on persistent organic pollutants

Does not contain any substances subject to REGULATION (EC) No. 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of September 16, 2009, on substances that deplete the ozone layer.

Does not contain any substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of June 20, 2019, on the marketing and use of explosives precursors.

Does not contain any substance subject to Regulation (EC) No. 273/2004 of the European Parliament and of the Council of February 11, 2004, on the manufacture and placing on the market of certain substances used for the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

Switzerland

Swiss national regulations : Chemicals Ordinance (SR 813.11).

Chemicals Risk Reduction Ordinance (SR 814.81).

Disposal in accordance with the Technical Ordinance on Waste (TVA), the Ordinance on Waste Management (VeVA) and the DETEC Ordinance on Lists of Waste Management (LVA).

Environmental Protection Act, USG (SR 814.01).

Storage class (LK) : LK 3 - Flammable liquids
Major Accidents Ordinance (SR 814.012) : Quantity threshold: 20,000 kg

15.2. Chemical safety assessment

A substance safety assessment has not been carried out

SECTION 16: Other information

Full text of H and EUH statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flammable liquids, category 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
STOT SE 3	Specific target organ toxicity (single exposure), Category 3, narcotic effects

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product only in terms of health, safety, and environmental conditions. It should not be construed as a guarantee of any specific property of the product.

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