

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

NITROVERDÜNNUNG IA

Version 12.0

Print Date 29.02.2024

Revision date / valid from 10.05.2023

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

1.1. Product identifier

Trade name : NITROVERDÜNNUNG IA

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

Use of the Substance/Mixture : thinner

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag Austria GmbH
Linke Wienzeile 152
AT 1060 Wien
Telephone : +43 (0) 59995 - 0
Telefax : +43 (0) 59995 - 1300
E-mail address : HSE@Brenntag.at
Responsible/issuing person : Abteilung Produktsicherheit

1.4. Emergency telephone number

Emergency telephone number : Vergiftungsinformationszentrale: +43 (1) 406 43 43 (0-24 Uhr)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Flammable liquids	Category 2	---	H225
Skin irritation	Category 2	---	H315
Serious eye damage	Category 1	---	H318
Reproductive toxicity	Category 2	---	H361d

NITROVERDÜNNUNG IA

Specific target organ toxicity - single exposure	Category 3	Central nervous system	H336
Specific target organ toxicity - single exposure	Category 3	Respiratory system	H335
Specific target organ toxicity - repeated exposure	Category 2	Central nervous system	H373
Aspiration hazard	Category 1	---	H304
Long-term (chronic) aquatic hazard	Category 3	---	H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9/10 for physicochemical information.

Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



Signal word : Danger

Hazard statements :

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : P260 Do not breathe gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

NITROVERDÜNNUNG IA

		P243 P210	Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	:	P331 P305 + P351 + P338	Do NOT induce vomiting. 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/doctor.
		P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
Storage	:	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Hazardous components which must be listed on the label:

- toluene
- 2-methylpropan-1-ol
- Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
2-methylpropan-1-ol			
Index-No. : 603-108-00-1	≥ 20 - < 30	Flam. Liq.3 Skin Irrit.2	H226
CAS-No. : 78-83-1			H315

NITROVERDÜNNUNG IA

EC-No.	: 201-148-0	Eye Dam.1	H318
EU REACH-	: 01-2119484609-23-xxxx	STOT SE3	H335
Reg. No.		STOT SE3	H336

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

EC-No.	: 921-024-6	>= 20 - < 25	Flam. Liq.2	H225
EU REACH-	: 01-2119475514-35-xxxx		Skin Irrit.2	H315
Reg. No.			STOT SE3	H336
			Asp. Tox.1	H304
			Aquatic Chronic2	H411

toluene

Index-No.	: 601-021-00-3	>= 20 - < 25	Flam. Liq.2	H225
CAS-No.	: 108-88-3		Repr.2	H361d
EC-No.	: 203-625-9		Asp. Tox.1	H304
EU REACH-	: 01-2119471310-51-xxxx		Skin Irrit.2	H315
Reg. No.			STOT SE3	H336
			STOT RE2	H373
			Aquatic Chronic3	H412

isobutyl acetate

Index-No.	: 607-026-00-7	>= 10 - < 20	Flam. Liq.2	H225
CAS-No.	: 110-19-0		STOT SE3	H336
EC-No.	: 203-745-1			
EU REACH-	: 01-2119488971-22-xxxx		Note C	EUH066
Reg. No.				

acetone

Index-No.	: 606-001-00-8	>= 10 - < 20	Flam. Liq.2	H225
CAS-No.	: 67-64-1		Eye Irrit.2	H319
EC-No.	: 200-662-2		STOT SE3	H336
EU REACH-	: 01-2119471330-49-xxxx			
Reg. No.				EUH066

1-methoxy-2-propanol

Index-No.	: 603-064-00-3	>= 1 - < 10	Flam. Liq.3	H226
CAS-No.	: 107-98-2		STOT SE3	H336
EC-No.	: 203-539-1			
EU REACH-	: 01-2119457435-35-xxxx			
Reg. No.				

For the full text of the H-Statements mentioned in this Section, see Section 16.
For the full text of the Notes mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Take off all contaminated clothing immediately.

NITROVERDÜNNUNG IA

If inhaled	: Provide sufficient air exchange and/or exhaust in work rooms. If symptoms persist, call a physician. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	: Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.
If swallowed	: If swallowed, do not induce vomiting - seek medical advice. Clean mouth with water and drink afterwards plenty of water.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically. No further information available.
-----------	---

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide (CO ₂), Dry powder, Water spray
Unsuitable extinguishing media	: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	: Vapours may form explosive mixture with air.
--------------------------------------	--

5.3. Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
Further advice	: Keep containers cool by spraying with water if exposed to fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

NITROVERDÜNNUNG IA

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep away from heat and sources of ignition. Avoid inhalation of vapour or mist. Wear respiratory protection. Wear personal protective equipment.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Ensure adequate ventilation. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. 13. Disposal considerations

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Vapours are heavier than air and may spread along floors. Avoid formation of aerosol.

Hygiene measures : Smoking, eating and drinking should be prohibited in the application area. Take off all contaminated clothing immediately. Wash hands before breaks and at the end of workday. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in an area equipped with solvent resistant flooring. Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Use only explosion-proof equipment. No sparking tools should be used. Use water spray to cool unopened containers. Vapours may form explosive mixture with air.

Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Keep in a well-ventilated place. Keep tightly closed in a dry and cool place.

Advice on common storage : Incompatible with oxidizing agents. Keep away from combustible material.

NITROVERDÜNNUNG IA

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	2-methylpropan-1-ol	CAS-No. 78-83-1
-------------------	----------------------------	------------------------

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL

Workers, Long-term - local effects, Inhalation : 310 mg/m³

DNEL

Consumers, Long-term - local effects, Inhalation : 55 mg/m³

Predicted No Effect Concentration (PNEC)

Fresh water : 0,4 mg/l

Marine water : 0,04 mg/l

Intermittent releases : 11 mg/l

Sewage treatment plant (STP) : 10 mg/l

Fresh water sediment : 1,56 mg/kg

Marine sediment : 0,156 mg/kg

Soil : 0,0756 mg/kg

Other Occupational Exposure Limit Values

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, Maximum allowable concentration:
50 ppm, 150 mg/m³

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, MAK Short Term Exposure Limit (STEL):
200 ppm, 600 mg/m³, (4x15 minutes/shift)

Component:	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
-------------------	---

NITROVERDÜNNUNG IA

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Long-term - systemic effects, Skin contact	:	733 mg/kg bw/day
DNEL		
Workers, Long-term - systemic effects, Inhalation	:	2035 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Skin contact	:	699 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	608 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	699 mg/kg bw/day

Other Occupational Exposure Limit Values

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, Hydrocarbon vapours
200 ml/m³

Component:	toluene	CAS-No. 108-88-3
-------------------	----------------	-------------------------

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Long-term - systemic effects, Inhalation	:	192 mg/m ³
DNEL		
Workers, Long-term - local effects, Inhalation	:	192 mg/m ³
DNEL		
Workers, Acute - systemic effects, Inhalation	:	384 mg/m ³
DNEL		
Workers, Acute - local effects, Inhalation	:	384 mg/m ³
DNEL		
Workers, Long-term - systemic effects, Skin contact	:	384 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	56,5 mg/m ³
DNEL		
Consumers, Long-term - local effects, Inhalation	:	56,5 mg/m ³
DNEL		

NITROVERDÜNNUNG IA

Consumers, Acute - systemic effects, Inhalation	: 226 mg/m ³
DNEL	
Consumers, Acute - local effects, Inhalation	: 226 mg/m ³
DNEL	
Consumers, Long-term - systemic effects, Skin contact	: 226 mg/kg bw/day
DNEL	
Consumers, Long-term - systemic effects, Ingestion	: 8,13 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water (AF = 1), extrapolated	: 0,68 mg/l
Marine water (AF = 1), extrapolated	: 0,68 mg/l
Intermittent releases (AF = 1), extrapolated	: 0,68 mg/l
Sewage treatment plant (STP) (AF = 1), extrapolated	: 13,61 mg/l
Fresh water sediment Partition coefficient	: 16,39 mg/kg dry weight (d.w.)
Marine sediment	: 16,39 mg/kg dry weight (d.w.)
Soil Partition coefficient	: 2,89 mg/kg dry weight (d.w.)

Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
50 ppm, 192 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
100 ppm, 384 mg/m³
Indicative

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, MAK Short Term Exposure Limit (STEL):
100 ppm, 380 mg/m³, (4x15 minutes/shift)

NITROVERDÜNNUNG IA

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, Skin designation:

Can be absorbed through the skin.

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, Maximum allowable concentration:

50 ppm, 190 mg/m³

Biological Exposure Indices

Austria. Ordinance on Health Monitoring at the Workplace (VGÜ), as amended, o-Cresol, Urine

0,8 mg/l

Frequency of medical examinations: 6 Months

Austria. Ordinance on Health Monitoring at the Workplace (VGÜ), as amended, Toluene, Blood

25 µg/100 mL

Frequency of medical examinations: 6 Months

Component:	isobutyl acetate	CAS-No. 110-19-0
-------------------	-------------------------	-------------------------

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL

Workers, Long-term - systemic effects, Inhalation : 300 mg/m³

DNEL

Workers, Acute - systemic effects, Inhalation : 600 mg/m³

DNEL

Workers, Long-term - local effects, Inhalation : 300 mg/m³

DNEL

Workers, Acute - local effects, Inhalation : 600 mg/m³

DNEL

Workers, Long-term - systemic effects, Skin contact : 10 mg/kg bw/day

DNEL

Workers, Acute - systemic effects, Skin contact : 10 mg/kg bw/day

DNEL

Consumers, Long-term - systemic effects, Inhalation : 35,7 mg/m³

DNEL

Consumers, Acute - systemic effects, Inhalation : 300 mg/m³

DNEL

Consumers, Long-term - local effects, Inhalation : 35,7 mg/m³

DNEL

Consumers, Acute - local effects, Inhalation : 300 mg/m³

NITROVERDÜNNUNG IA

DNEL		
Consumers, Long-term - systemic effects, Skin contact	:	5 mg/kg bw/day
DNEL		
Consumers, Acute - systemic effects, Skin contact	:	5 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	5 mg/kg bw/day
DNEL		
Consumers, Acute - systemic effects, Ingestion	:	5 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water	:	0,17 mg/l
Marine water	:	0,017 mg/l
Intermittent releases	:	0,34 mg/l
Sewage treatment plant (STP)	:	200 mg/l
Fresh water sediment	:	0,877 mg/kg d.w.
Marine sediment	:	0,0877 mg/kg d.w.
Soil	:	0,0755 mg/kg d.w.

Other Occupational Exposure Limit Values

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, Maximum allowable concentration:
100 ppm, 480 mg/m³

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, MAK Ceiling Limit Value:
100 ppm, 480 mg/m³

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
150 ppm, 723 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
50 ppm, 241 mg/m³
Indicative

NITROVERDÜNNUNG IA

Component:	acetone	CAS-No. 67-64-1
-------------------	----------------	------------------------

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Long-term - systemic effects, Skin contact	:	186 mg/kg bw/day
DNEL		
Workers, Long-term - systemic effects, Inhalation	:	1210 mg/m ³
DNEL		
Workers, Acute - local effects, Inhalation	:	2420 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Skin contact	:	62 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	200 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	62 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water	:	10,6 mg/l
Marine water	:	1,06 mg/l
Intermittent releases	:	21 mg/l
Sewage treatment plant (STP)	:	100 mg/l
Fresh water sediment	:	30,4 mg/kg, 30,4 mg/kg d.w.
Marine sediment	:	3,04 mg/kg, 3,04 mg/kg d.w.
Soil	:	29,5 mg/kg

Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
500 ppm, 1.210 mg/m³
Indicative

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, MAK Short Term Exposure Limit (STEL):
2.000 ppm, 4.800 mg/m³, (4x15 minutes/shift)

NITROVERDÜNNUNG IA

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, Maximum allowable concentration:
500 ppm, 1.200 mg/m³

Component:	1-methoxy-2-propanol	CAS-No. 107-98-2
-------------------	-----------------------------	-------------------------

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Acute - local effects, Inhalation	:	553,5 mg/m ³
DNEL		
Workers, Long-term - systemic effects, Skin contact	:	50,6 mg/kg bw/day
DNEL		
Workers, Long-term - systemic effects, Inhalation	:	369 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Skin contact	:	18,1 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	43,9 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	3,3 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water	:	10 mg/l
Marine water	:	1 mg/l
Intermittent releases	:	100 mg/l
Sewage treatment plant (STP)	:	100 mg/l
Fresh water sediment	:	52,3 mg/kg d.w.
Marine sediment	:	5,2 mg/kg d.w.
Soil	:	4,59 mg/kg d.w.

Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
150 ppm, 568 mg/m³
Indicative

NITROVERDÜNNUNG IA

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
100 ppm, 375 mg/m³

Indicative

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, MAK Ceiling Limit Value:
50 ppm, 187 mg/m³

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, Skin designation:
Can be absorbed through the skin.

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, Maximum allowable concentration:
50 ppm, 187 mg/m³

8.2. Exposure controls

Personal protective equipment

Respiratory protection

Advice : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Advice : Wear suitable gloves.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Material : Nitrile rubber

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : Flame retardant antistatic protective clothing.
Safety shoes

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

NITROVERDÜNNUNG IA

Do not allow material to contaminate ground water system.
If the product contaminates rivers and lakes or drains inform
respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	:	liquid
Physical state	:	liquid
Colour	:	colourless
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	> 55 °C
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	15 %(V)
Lower explosion limit / Lower flammability limit	:	1 %(V)
Flash point	:	< 0 °C
Auto-ignition temperature	:	> 250 °C
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	Not applicable substance/mixture is non-polar/aprotic
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	immiscible
Solubility in other solvents	:	No data available

NITROVERDÜNNUNG IA

Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Dispersion Stability	:	No data available
Vapour pressure	:	247 hPa
Relative density	:	No data available
Density	:	0,79 - 0,82 g/cm ³ (20 °C)
Bulk density	:	No data available
Relative vapour density	:	No data available
Particle characteristics	:	No data available

9.2 Other information

Explosives	:	Formation of explosive air/vapour mixtures is possible.
------------	---	---

SECTION 10: Stability and reactivity

10.1. Reactivity

Advice	:	No information available.
--------	---	---------------------------

10.2. Chemical stability

Advice	:	No decomposition if stored and applied as directed. No further information available.
--------	---	--

10.3. Possibility of hazardous reactions

Hazardous reactions	:	Vapours may form explosive mixture with air.
---------------------	---	--

10.4. Conditions to avoid

Conditions to avoid	:	No information available.
---------------------	---	---------------------------

10.5. Incompatible materials

Materials to avoid	:	No information available.
--------------------	---	---------------------------

10.6. Hazardous decomposition products

Hazardous decomposition products	:	Carbon monoxide, Carbon dioxide (CO ₂), Hydrocarbons, No decomposition if used as directed.
----------------------------------	---	---

SECTION 11: Toxicological information

NITROVERDÜNNUNG IA

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

Data for the product

Acute toxicity

Oral

Please find this information in the listing of the component/components below in this section.

Inhalation

Please find this information in the listing of the component/components below in this section.

Dermal

Please find this information in the listing of the component/components below in this section.

Irritation

Skin

Result : Causes skin irritation.

Eyes

Result : Causes serious eye damage.

Sensitisation

Result : not sensitizing

CMR effects

CMR Properties

Carcinogenicity : Based on available data, the classification criteria are not met.
 Mutagenicity : Based on available data, the classification criteria are not met.
 Reproductive toxicity : Suspected of damaging the unborn child.
 Classified based on the calculation method according to CLP regulation.

Specific Target Organ Toxicity

Single exposure

No data available

Repeated exposure

No data available

Other toxic properties

NITROVERDÜNNUNG IA

Repeated dose toxicity

No data available

Aspiration hazard

Aspiration hazard if swallowed - can enter lungs and cause damage.,

Further information

Other relevant toxicity information : Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

Experience with human exposure : Respiration of solvent vapour may cause dizziness.,

Component:	2-methylpropan-1-ol	CAS-No. 78-83-1
-------------------	----------------------------	------------------------

Acute toxicity

Oral

LD50 : 3350 mg/kg (Rat, female) (OECD Test Guideline 401)

LD50 : > 2830 mg/kg (Rat, male) (OECD Test Guideline 401)

Inhalation

LC50 : > 18,18 mg/l (Rat, male and female; 6 h; vapour) (US-EPA method)

Dermal

LD50 : 2460 mg/kg (Rabbit, female) (OECD Test Guideline 402)

LD50 : > 2000 mg/kg (Rabbit, male) (OECD Test Guideline 402)

CMR effects

CMR Properties

Carcinogenicity : It is not considered carcinogenic. QSAR deduced data.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.

Teratogenicity : Did not show teratogenic effects in animal experiments.

Reproductive toxicity : Animal testing did not show any effects on fertility.

Component:	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
-------------------	---

Acute toxicity

NITROVERDÜNNUNG IA

Oral

LD50 : > 5000 mg/kg (Rat) (OECD Test Guideline 401)

Inhalation

LC50 : > 25,2 mg/l (Rat, male and female; 4 h; vapour) (OECD Test Guideline 403)

Dermal

LD50 : > 2000 mg/kg (Rat) (OECD Test Guideline 402)

Component:	toluene	CAS-No. 108-88-3
-------------------	----------------	-------------------------

Acute toxicity

Oral

LD50 : 5580 mg/kg (Rat, male) (OECD Test Guideline 401)

Inhalation

LC50 : 28,1 mg/l (Rat, male and female; 4 h; vapour) (OECD Test Guideline 403)

LC50 : 25,7 mg/l (Rat, male; 4 h; vapour) (OECD Test Guideline 403)

LC50 : 30 mg/l (Rat, female; 4 h; vapour) (OECD Test Guideline 403)

Dermal

LD50 : > 5000 mg/kg (Rabbit, male)

CMR effects

CMR Properties

Carcinogenicity : Animal testing did not show any carcinogenic effects.

Mutagenicity : In vitro tests did not show mutagenic effects

In vivo tests did not show mutagenic effects

Teratogenicity : Animal experiments showed teratogenic effects.

Suspected of damaging the unborn child.

Reproductive toxicity : Animal testing did not show any effects on fertility.

Component:	isobutyl acetate	CAS-No. 110-19-0
-------------------	-------------------------	-------------------------

Further information

Experience with human exposure : Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Chronic exposure causes drying effect on the skin and eczema.,

NITROVERDÜNNUNG IA

Component:	acetone	CAS-No. 67-64-1
-------------------	----------------	------------------------

Further information

Experience with human exposure : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Chronic exposure may cause dermatitis.
Chronic inhalation causes tiredness, headache and rhinitis.,

11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Component:	2-methylpropan-1-ol	CAS-No. 78-83-1
-------------------	----------------------------	------------------------

Acute toxicity

Fish

LC50 : 1.430 mg/l (Pimephales promelas (fathead minnow), mortality; 96 h) (flow-through test)

Toxicity to daphnia and other aquatic invertebrates

EC50 : 1.100 mg/l (Daphnia pulex (Water flea), Immobilization; 48 h) (static test; ASTM D4229)

algae

NOEC : 53 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (static test; End point: Biomass; OECD Test Guideline 201)
EC50 : 632 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (static test; End point: Biomass; OECD Test Guideline 201)
EC50 : 1799 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)

NITROVERDÜNNUNG IA

Component: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Acute toxicity

Fish

LL50 : 11,4 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (Toxicity to fish; OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

EL50 : 3 mg/l (Daphnia magna (Water flea); 48 h) (Toxicity to daphnia; OECD Test Guideline 202)

algae

EL50 : 30 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (Toxicity to algae; OECD Test Guideline 201)

Component: toluene CAS-No. 108-88-3

Acute toxicity

Fish

LC50 : 5,5 mg/l (Oncorhynchus kisutch (coho salmon); 96 h) (flow-through test)

Toxicity to daphnia and other aquatic invertebrates

LC50 : 3,78 mg/l (Ceriodaphnia dubia (water flea); 48 h) (US-EPA)

algae

EC50 : 134 mg/l (Chlamydomonas angulosa; 3 h)

12.2. Persistence and degradability

Data for the product

Persistence and degradability

Persistence

Result : No data available

NITROVERDÜNNUNG IA

Biodegradability

Result : No data available

12.3. Bioaccumulative potential

Data for the product

Bioaccumulation

Result : No data available

12.4. Mobility in soil

Data for the product

Mobility

Result : No data available

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

Data for the product

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Component:	acetone	CAS-No. 67-64-1
-------------------	----------------	------------------------

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

SECTION 13: Disposal considerations

NITROVERDÜNNUNG IA

13.1. Waste treatment methods

Product	:	Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Dispose of as special waste in compliance with local and national regulations.
Contaminated packaging	:	Dispose of in accordance with local regulations.
	:	Dispose of as unused product. Dispose of in accordance with local regulations.
European Waste Catalogue Number	:	No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.
Waste code Austria	:	55359

SECTION 14: Transport information

14.1. UN number or ID number

1263

14.2. UN proper shipping name

ADR	:	PAINT RELATED MATERIAL Special Provision 640D
RID	:	PAINT RELATED MATERIAL Special Provision 640D
IMDG	:	PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR-Class	:	3
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code)	:	3; F1; 33; (D/E)
RID-Class	:	3
(Labels; Classification Code; Hazard Identification Number)	:	3; F1; 33
IMDG-Class	:	3
(Labels; EmS)	:	3; F-E, <u>S-E</u>

14.4. Packaging group

ADR	:	II
RID	:	II
IMDG	:	II

14.5. Environmental hazards

NITROVERDÜNNUNG IA

Environmentally hazardous according to ADR : no
 Environmentally hazardous according to RID : no
 Marine Pollutant according to IMDG-Code : no

14.6. Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Data for the product

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) : ; Not listed

EU. REACH Annex XIV, Substances Subject to Authorization : ; Not listed;

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : Qualifying quantity for the application of Lower-tier requirements: 5.000 tonnes; Part 1: Categories of dangerous substances; Flammable liquids, Categories 2 or 3 not covered by P5a and P5b

Qualifying quantity for the application of Upper-tier requirements: 50.000 tonnes; Part 1: Categories of dangerous substances; Flammable liquids, Categories 2 or 3 not covered by P5a and P5b

Regulation about combustible liquids (VbF). : VbF 2023: Hazard category 2 (Flashpoint < 23°C, Initial boiling point > 35°C)

Other regulations : Austria rule BGBl.I 53/1997 List of Chem. materials is in compliance with EU rule
 Take note of the rules of workers protection.
 The VOC-Plants-Regulation BGBl. 301/2002 has to be considered.

15.2. Chemical safety assessment

NITROVERDÜNNUNG IA

No data available

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of the Notes referred to under section 3.

Note C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
--------	--

Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory

NITROVERDÜNNUNG IA

LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
UK REACH Auth. No.:	UK REACH Authorisation Number
UK REACH AuthAppC. No.	UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No	UK REACH Registration Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act

Further information

- Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
- Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
- Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

NITROVERDÜNNUNG IA

Other information :

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

|| Indicates updated section.