Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Issue date: 16/03/2020 Revision date: 16/03/2020 SDS No: 12236-0016

Supersedes: 02/02/2017

Version: 1.1

SECTION 1: Identification of the substance/mixture a	and of the company/undertaking	
1.1. Product identifier		
Product form : Mixture		
Product name : NITROVERDL	JENNER	
1.2. Relevant identified uses of the substance or mixture a	Ind uses advised against	
1.2.1. Relevant identified uses		
Use of the substance/mixture : Solvent mixture	9	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safety data sheet		
Imbach Chemie AG Pilatusstrasse 31 5630 Muri T +41 56 664 06 16 - F +41 56 664 06 17 info@imbachchemie.ch - www.imbachchemie.ch		
1.4. Emergency telephone number		
Emergency number : England & Wa	ales: 111, Scotland: 111	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Flammable liquids, Category 2	H225	
Skin corrosion/irritation, Category 2	H315	
Serious eye damage/eye irritation, Category 1	H318	
Reproductive toxicity, Category 2	H361d	
Specific target organ toxicity — Single exposure, Category 3,	H335	
Respiratory tract irritation		
Specific target organ toxicity — Single exposure, Category 3, Narcosis		
Specific target organ toxicity — Repeated exposure, Category 2	H373	
Aspiration hazard, Category 1	H304	
Full text of H statements : see section 16		
Full text of H statements : see section 16 Adverse physicochemical, human health and environmental effec	ts ss. Causes skin irritation. May be fatal if swallowed and enters airways.	

Higniy fiammable liquid and vapour. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Causes serious eye damage. May cause respiratory irritation. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

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

Hazard pictograms (CLP)

Signal word (CLP) Hazardous ingredients

- GHS02 GHS05 GHS07 GHS08
- : Danger
- : Toluene; xylene; Ethyl acetate; Butanone; isobutyl acetate; methyl acetate; Isobutanol; Methanol; propan-2-ol; isopropyl alcohol; isopropanol

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Hazard statements (CLP)	: 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.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P243 - Take action to prevent static discharges.
	P280 - Wear protective clothing, eye protection, face protection, protective gloves.
	P310 - Immediately call a POISON CENTER or doctor.
	P331 - Do NOT induce vomiting.
	P405 - Store locked up.

2.3. Other hazards

No additional information available

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]
Toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51	25 - 50	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336
xylene	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (REACH-no) 01-2119488216-32	10 - 15	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Ethyl acetate	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5 (REACH-no) 01-2119475103-46	2,5 - 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butanone	(CAS-No.) 78-93-3 (EC-No.) 201-159-0 (EC Index-No.) 606-002-00-3 (REACH-no) 01-2119457290-43	2,5 - 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
isobutyl acetate Substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB) (Note C)	(CAS-No.) 110-19-0 (EC-No.) 203-745-1 (EC Index-No.) 607-026-00-7 (REACH-no) 01-2119488971-22	2,5 - 10	Flam. Liq. 2, H225 STOT SE 3, H335

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methyl acetate	(CAS-No.) 79-20-9 (EC-No.) 201-185-2 (EC Index-No.) 607-021-00-X	2,5 - 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Isobutanol	(CAS-No.) 78-83-1 (EC-No.) 201-148-0 (EC Index-No.) 603-108-00-1 (REACH-no) 01-2119484609-23	2,5 - 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336
propan-2-ol; isopropyl alcohol; isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0 (REACH-no) 01-2119457558-25	2,5 - 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
1-methoxy-2-propanol; monopropylene glycol methyl ether Substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB)	(CAS-No.) 107-98-2 (EC-No.) 203-539-1 (EC Index-No.) 603-064-00-3 (REACH-no) 01-2119457435-35	2,5 - 10	Flam. Liq. 3, H226 STOT SE 3, H336
Methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	< 2,5	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	(3 ≤C < 10) STOT SE 2, H371 (10 ≤C < 100) STOT SE 1, H370	

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. Full text of H-statements: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Take off immediately all contaminated clothing. In the event of persistent symptoms receive medical treatment. Take affected person away from danger area.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician. In case of loss of conscience place the victim in the recovery position.	
First-aid measures after skin contact	: Wash off immediately with soap and plenty of water. Treat subsequently with skin cream. Get medical advice if skin irritation persists.	
First-aid measures after eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an ophthalmologist if irritation persists.	
First-aid measures after ingestion	: Do not induce vomiting. Attention. Beware, danger of aspiration. Call a physician immediately. Rinse mouth. Drink plenty of water.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after inhalation	: High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.	
Symptoms/effects after skin contact	: Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.	
Symptoms/effects after eye contact	: May cause eye irritation.	
Symptoms/effects after ingestion	: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.	

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

Treat symptomatically.

: Water spray. Dry powder. Foam. Carbon dioxide. : high volume water jet.		
5.2. Special hazards arising from the substance or mixture		
In use, may form flammable/explosive vapour-air mixture.Carbon oxides (CO, CO2).		
 Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing. Cool containers at risk with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains. 		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. No flames, no sparks. Eliminate all sources of ignition. Evacuate unnecessary personnel. Wear personal protective equipment.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Do not discharge into the drains/surface waters/groundwater.			

6.3. Methods and material for containment and cleaning up		
For containment	: Collect spillage.	
Methods for cleaning up	 Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. 	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

Refer to protective measures listed in sections 7 and 8. For further information refer to section 13.

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling Hygiene measures	 Handle and open container with care. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid formation of aerosols. Take precautionary measures against static discharge Explosion free apparatus have to be used. Vapours are heavier than air and may spread along floors. Pregnant women may avoid to breathe or to have skin contact with product Do not inhale vapour. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Treat subsequently with skin cream. Avoid contact with skin, eyes and clothing. Take off immediately all contaminated clothing and wash it before reuse. 	e. d :.	
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions	: Keep container tightly closed in a dry, cool and well-ventilated place. Pay attention to explosion protection guidelines.		
Incompatible products	: Strong oxidizing agent. Strong acids. Strong bases.		
Heat and ignition sources	: Keep away from heat and direct sunlight.		
Information on mixed storage	: Keep away from food, drink and animal feeding stuffs.		
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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters		
Toluene (108-88-3)		
EU - Occupational Exposure Limits		
Local name	Toluene	
IOELV TWA (mg/m³)	192 mg/m³	
IOELV TWA (ppm)	50 ppm	
IOELV STEL (mg/m³)	384 mg/m ³	
IOELV STEL (ppm)	100 ppm	
Notes	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
United Kingdom - Occupational Exposure Limits		
Local name	Toluene	
WEL TWA (mg/m³)	191 mg/m ³	
WEL TWA (ppm)	50 ppm	
WEL STEL (mg/m³)	384 mg/m ³	
WEL STEL (ppm)	100 ppm	
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	
WEL chemical category	Potential for cutaneous absorption	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

xylene (1330-20-7)		
EU - Occupational Exposure Limits		
Local name	Xylene, mixed isomers, pure	
IOELV TWA (mg/m³)	221 mg/m ³	
IOELV TWA (ppm)	50 ppm	
IOELV STEL (mg/m³)	442 mg/m ³	
IOELV STEL (ppm)	100 ppm	
Notes	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
Local name	Xylene	
WEL TWA (mg/m³)	220 mg/m³ o-,m-,p- or mixed isomers	
WEL TWA (ppm)	50 ppm o-,m-,p- or mixed isomers	
WEL STEL (mg/m³)	441 mg/m ³ o-,m-,p- or mixed isomers	
WEL STEL (ppm)	100 ppm o-,m-,p- or mixed isomers	
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	

xylene (1330-20-7)				
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE				
United Kingdom - Biological limit values				
Local name	Xylene, o-, m-, p- or mixed isomers			
United Kingdom (BEI)	650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift			
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE			

Ethyl acetate (141-78-6)			
EU - Occupational Exposure Limits			
Local name Ethyl acetate			
IOELV TWA (mg/m³)	734 mg/m ³		
IOELV TWA (ppm) 200 ppm			
IOELV STEL (mg/m ³) 1468 mg/m ³			
IOELV STEL (ppm) 400 ppm			
Regulatory reference COMMISSION DIRECTIVE (EU) 2017/164			
United Kingdom - Occupational Exposure Limits			
Local name Ethyl acetate			
WEL TWA (mg/m ³) 734 mg/m ³			
WEL TWA (ppm) 200 ppm			
WEL STEL (mg/m ³)	1468 mg/m ³		
WEL STEL (ppm)	400 ppm		
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE			

Butanone (78-93-3)			
EU - Occupational Exposure Limits			
al name Butanone			
IOELV TWA (mg/m³)	600 mg/m³		
IOELV TWA (ppm)	200 ppm		
IOELV STEL (mg/m ³) 900 mg/m ³			
ELV STEL (ppm) 300 ppm			
Regulatory reference COMMISSION DIRECTIVE 2000/39/EC			
United Kingdom - Occupational Exposure Limits			
Local name	Butan-2-one (methyl ethyl ketone)		
WEL TWA (mg/m³)	600 mg/m³		
WEL TWA (ppm)	200 ppm		
WEL STEL (mg/m³)	899 mg/m³		
WEL STEL (ppm)	300 ppm		
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		

Butanone (78-93-3)				
United Kingdom - Biological limit values				
Local name Butan-2-one (methyl ethyl ketone)				
United Kingdom (BEI)	70 µmol/I Parameter: butan-2-one - Medium: urine - Sampling time: Post shift			
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE			

isobutyl acetate (110-19-0)			
EU - Occupational Exposure Limits			
ocal name Isobutyl acetate			
IOELV TWA (mg/m³)	241 mg/m ³		
IOELV TWA (ppm) 50 ppm			
IOELV STEL (mg/m ³) 723 mg/m ³			
IOELV STEL (ppm) 150 ppm			
Regulatory reference COMMISSION DIRECTIVE (EU) 2019/1831			
United Kingdom - Occupational Exposure Limits			
Local name Isobutyl acetate			
WEL TWA (mg/m³) 724 mg/m³			
WEL TWA (ppm)	150 ppm		
WEL STEL (mg/m³)	903 mg/m ³		
WEL STEL (ppm)	187 ppm		
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE			

methyl acetate (79-20-9)				
United Kingdom - Occupational Exposure Limits				
Local name Methyl acetate				
WEL TWA (mg/m³)	616 mg/m ³			
WEL TWA (ppm) 200 ppm				
WEL STEL (mg/m ³)	770 mg/m³			
WEL STEL (ppm)	250 ppm			
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE				

Isobutanol (78-83-1)			
United Kingdom - Occupational Exposure Limits			
Local name 2-Methylpropan-1-ol			
WEL TWA (mg/m³) 154 mg/m³			
WEL TWA (ppm) 50 ppm			
WEL STEL (mg/m³)	231 mg/m ³		
WEL STEL (ppm)	75 ppm		
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE			

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)			
United Kingdom - Occupational Exposure Limits			
Local name Propan-2-ol			
WEL TWA (mg/m ³) 999 mg/m ³			
WEL TWA (ppm) 400 ppm			
WEL STEL (mg/m³) 1250 mg/m³			
WEL STEL (ppm)	500 ppm		
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE			

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)				
EU - Occupational Exposure Limits				
Local name	1-Methoxypropanol-2			
IOELV TWA (mg/m³)	375 mg/m ³			
IOELV TWA (ppm)	100 ppm			
IOELV STEL (mg/m³)	568 mg/m ³			
IOELV STEL (ppm) 150 ppm				
Notes	Skin			
Regulatory reference	latory reference COMMISSION DIRECTIVE 2000/39/EC			
United Kingdom - Occupational Exposure Limits				
Local name	1-Methoxypropan-2-ol			
WEL TWA (mg/m³)	375 mg/m³			
WEL TWA (ppm)	100 ppm			
WEL STEL (mg/m³)	560 mg/m³			
WEL STEL (ppm)	150 ppm			
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)			
WEL chemical category	Potential for cutaneous absorption			
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE				

Methanol (67-56-1)			
EU - Occupational Exposure Limits			
ocal name Methanol			
IOELV TWA (mg/m³)	260 mg/m ³		
IOELV TWA (ppm) 200 ppm			
Notes Skin			
Regulatory reference COMMISSION DIRECTIVE 2006/15/EC			
United Kingdom - Occupational Exposure Limits			
Local name	Methanol		
WEL TWA (mg/m³)	266 mg/m ³		
WEL TWA (ppm)	200 ppm		
WEL STEL (mg/m³)	333 mg/m ³		
WEL STEL (ppm)	250 ppm		
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Methanol (67-56-1)			
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)		
WEL chemical category	Potential for cutaneous absorption		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
8.2. Exposure controls			

Appropriate engineering controls:

Ensure good ventilation of the work station. Pay attention to explosion protection guidelines. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Protective gloves. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
protective gloves	Neoprene	6 (> 480 minutes)	0,75		
protective gloves	Polyvinylchloride (PVC)	6 (> 480 minutes)	1,3		

Eye protection:

Protective goggles (EN 166)

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Breathing apparatus with filter		Short term exposure	
Self contained breathing apparatus		Long term exposure	

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: < -20 °C
Freezing point	: No data available
Boiling point	: > 57 °C
Flash point	: -9 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable

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Vapour pressure Relative vapour density at 20 °C Relative density Density Solubility Log Pow Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties Lower explosive limit (LEL) Upper explosive limit (UEL)	 105 hPa (20°C) No data available No data available 0.86 g/cm³ (20°C) Water: immiscible No data available No data available No data available No data available Product is not explosive. Flammable or explosive vapour/air mixtures may be formed. No data available 1 vol % 11.5 vol %
9.2. Other information	: 11.5 VOI %
Ignition temperature Solvent content	: 270°C : 100%

Ignition tomporataro	•	210
Solvent content	:	1009

SECTION 10: Stability and reactivity
10.1. Reactivity
No data available.
10.2. Chemical stability
No decomposition if stored and applied as directed.
10.3. Possibility of hazardous reactions
In use, may form flammable/explosive vapour-air mixture.
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
Oxidizing agent. Acids. Strong bases.
10.6. Hazardous decomposition products

Toxic gases.

SECTION 11: Toxicological infor	mation
11.1. Information on toxicological e	ffects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: May cause respiratory irritation. May cause drowsiness or dizziness.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
SECTION 12: Ecological informa	ntion

12.1. Toxicity	
Ecology - general	: Toxic to aquatic life with long lasting effects.

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Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	t
No additional information available	
12.6. Other adverse effects	
Additional information	: Do not flush into surface water or sewer system
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not discharge into drains.
Product/Packaging disposal recommendations	 Should not be disposed of with household waste. Empty containers should be taken for local recycling, recovery or waste disposal. Packaging that cannot be cleaned should be disposed of like the product.

- Additional information European List of Waste (LoW) code
- : The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
- : 16 05 08* discarded organic chemicals consisting of or containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN						
ADR	IMDG	ΙΑΤΑ	ADN	RID		
14.1. UN number	14.1. UN number					
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993		
14.2. UN proper shippin	g name					
FLAMMABLE LIQUID, N.O.S. (Toluene ; Ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (Toluene ; Ethyl acetate)	Flammable liquid, n.o.s. (Toluene ; Ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (Toluene ; Ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (Toluene ; Ethyl acetate)		
Transport document descr	iption					
UN 1993 FLAMMABLE LIQUID, N.O.S. (Toluene ; Ethyl acetate), 3, II, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (Toluene ; Ethyl acetate), 3, II	UN 1993 Flammable liquid, n.o.s. (Toluene ; Ethyl acetate), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (Toluene ; Ethyl acetate), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (Toluene ; Ethyl acetate), 3, II		
14.3. Transport hazard of	class(es)	- -		- -		
3	3	3	3	3		
3						
14.4. Packing group						
II	II	II	II	II		

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14.5. Environmental hazards						
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No		
No supplementary information available						
14.6. Special precaution	ns for user					
Overland transport						
Classification code (ADR)	: F	1				
Special provisions (ADR)		74, 601, 640D				
Limited quantities (ADR)	: 1					
Excepted quantities (ADR) Packing instructions (ADR)		2 2001, IBC02, R001				
Mixed packing provisions (AI		1P19				
Transport category (ADR)	: 2					
Hazard identification number						
Orange plates	:	33 1993				
Tunnel restriction code (ADR						
EAC code	: •	3YE				
Transport by sea Special provisions (IMDG)	: 2	74				
Limited quantities (IMDG)	: 1					
Excepted quantities (IMDG)	: E					
Packing instructions (IMDG)		2001				
EmS-No. (Fire)	: F	-E				
EmS-No. (Spillage)	: S	э-Е				
Air transport						
PCA Excepted quantities (IA						
PCA Limited quantities (IATA		(341				
PCA limited quantity max ne						
PCA packing instructions (IA		53				
PCA max net quantity (IATA) CAO packing instructions (IA		L 64				
CAO packing instructions (IA CAO max net quantity (IATA		0L				
Special provisions (IATA)) : O : A					
ERG code (IATA)	: 3					
Inland waterway transport						
Classification code (ADN)	: F	'1				
Special provisions (ADN)	: 2	74, 601, 640D				
Limited quantities (ADN)	: 1	L				
Excepted quantities (ADN)	: E					
Equipment required (ADN)		PP, EX, A				
Ventilation (ADN)		'E01				
Number of blue cones/lights	(ADN) : 1					
Rail transport Classification code (RID)	: F	1				
Special provisions (RID)		74, 601, 640D				
Limited quantities (RID)	: 1					
Excepted quantities (RID)	: E					
Packing instructions (RID)	: F	2001, IBC02, R001				
Transport category (RID)	: 2					
Hazard identification number	· (RID) : 3	3				

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) SDS No: 12236-0016

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on	Entry title or description
40.	NITROVERDUENNER ; Toluene ; xylene ; Ethyl acetate ; Butanone ; isobutyl acetate ; methyl acetate ; Isobutanol ; Methanol ; propan-2-ol; isopropyl alcohol; isopropanol ; 1-methoxy-2-propanol; monopropylene glycol methyl ether	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.
48.	Toluene	Toluene
69.	Methanol	Methanol

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Directive 2012/18/EU (SEVESO III)

eveso III Part I (Categories of dangerous substances) Qualifying quantity (tonnes)		nnes)
	Lower-tier	Upper-tier
P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b	5000	50000

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BLV	Biological limit value		
CAS-No.	Chemical Abstract Service number		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC50	Median effective concentration		
EC-No.	European Community number		
EN	European Standard		
ΙΑΤΑ	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		

LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	
WGK	Water Hazard Class	

Full text of H- and EUH-statements:			
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
Repr. 2	Reproductive toxicity, Category 2		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2		
STOT SE 1	Specific target organ toxicity — single exposure, Category 1		
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H301	Toxic if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H311	Toxic in contact with skin.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		

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Causes serious eye damage.	
Causes serious eye irritation.	
Toxic if inhaled.	
Harmful if inhaled.	
May cause respiratory irritation.	
May cause drowsiness or dizziness.	
Suspected of damaging the unborn child.	
Causes damage to organs.	
May cause damage to organs.	
May cause damage to organs through prolonged or repeated exposure.	
Harmful to aquatic life with long lasting effects.	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:				
Flam. Liq. 2	H225	On basis of test data		
Skin Irrit. 2	H315	Calculation method		
Eye Dam. 1	H318	Calculation method		
Repr. 2	H361d	Calculation method		
STOT SE 3	H335	Calculation method		
STOT SE 3	H336	Calculation method		
STOT RE 2	H373	Calculation method		
Asp. Tox. 1	H304	Expert judgment		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.