

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

NITRO THINNER IA

Version 8.0

Print Date 10.05.2018

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

1.1. Product identifier

Trade name : NITRO THINNER 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 - 1179
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

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Specific target organ toxicity - single exposure	Category 3	Respiratory system, Central nervous system	H335, H336
Specific target organ toxicity - repeated exposure	Category 2	---	H373
Aspiration hazard	Category 1	---	H304
Chronic aquatic toxicity	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.
P243 Take action to prevent static discharges.
P210 Keep away from heat, hot surfaces, sparks,

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		open flames and other ignition sources. No smoking.
Response	: P331	Do NOT induce vomiting.
	P305 + P351 + P338	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

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

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 - < 25	Flam. Liq.3	H226
CAS-No. : 78-83-1		Skin Irrit.2	H315
EC-No. : 201-148-0		Eye Dam.1	H318
EU REACH- : 01-2119484609-23-xxxx		STOT SE3	H335
Reg. No.		STOT SE3	H336
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 RE2	H373
	STOT SE3	H336	
isobutyl acetate			

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Index-No.	: 607-026-00-7	>= 12,5 - < 20	Flam. Liq.2	H225
CAS-No.	: 110-19-0		STOT SE3	H336
EC-No.	: 203-745-1			
EU REACH-	: 01-2119488971-22-xxxx			
Reg. No.				

acetone

Index-No.	: 606-001-00-8	>= 10 - < 12,5	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.				

1-methoxy-2-propanol

Index-No.	: 603-064-00-3	>= 3 - <= 5	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.				

Remarks : Special gasoline 80/110 is a mixture of:
 Hydrocarbons, C6-C7, Isoalkane, Cyclene, <5% n-Hexane
 Hydrocarbons, C6-C7, n-Alkane, Isoalkane, Cyclene, <5% n-Hexane
 Hydrocarbons, C7, n-Alkane, Isoalkane, Cyclene

For the full text of the H-Statements 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.
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

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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 (CO₂), 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**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

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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.

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
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Other Occupational Exposure Limit Values

Austria. MAK List, Maximum allowable concentration:
50 ppm, 150 mg/m³

Austria. MAK List, MAK Short Term Exposure Limit (STEL):
200 ppm, 600 mg/m³, (4x15 minutes/shift)

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Component:	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
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Other Occupational Exposure Limit Values

Austria. MAK List, Hydrocarbon vapours
200 ml/m³

Component:	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
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Other Occupational Exposure Limit Values

Austria. MAK List, Hydrocarbon vapours
200 ml/m³

Component:	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
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Other Occupational Exposure Limit Values

Austria. MAK List, Hydrocarbon vapours
200 ml/m³

Component:	toluene	CAS-No. 108-88-3
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Other Occupational Exposure Limit Values

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

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

Austria. MAK List, MAK Short Term Exposure Limit (STEL):
100 ppm, 380 mg/m³, (4x15 minutes/shift)

Austria. MAK List, Skin designation:
Can be absorbed through the skin.

Austria. MAK List, Maximum allowable concentration:
50 ppm, 190 mg/m³

Component:	isobutyl acetate	CAS-No. 110-19-0
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Other Occupational Exposure Limit Values

Austria. MAK List, Maximum allowable concentration:
100 ppm, 480 mg/m³

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Austria. MAK List, MAK Ceiling Limit Value:
100 ppm, 480 mg/m³

Component:	acetone	CAS-No. 67-64-1
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Other Occupational Exposure Limit Values

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

Austria. MAK List, MAK Short Term Exposure Limit (STEL):
2.000 ppm, 4.800 mg/m³, (4x15 minutes/shift)

Austria. MAK List, Maximum allowable concentration:
500 ppm, 1.200 mg/m³

Component:	1-methoxy-2-propanol	CAS-No. 107-98-2
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Other Occupational Exposure Limit Values

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

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

Austria. MAK List, MAK Ceiling Limit Value:
50 ppm, 187 mg/m³

Austria. MAK List, Skin designation:
Can be absorbed through the skin.

Austria. MAK List, 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

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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.
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
Colour : colourless
Odour : characteristic
Odour Threshold : no data available
pH : no data available
Melting point/range : no data available
Boiling point/boiling range : > 55 °C
Flash point : < 0 °C
Evaporation rate : no data available
Flammability (solid, gas) : no data available

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Upper explosion limit	: 15 %(V)
Lower explosion limit	: 1 %(V)
Vapour pressure	: 247 hPa
Relative vapour density	: no data available
Density	: 0,792 g/cm ³ (20 °C)
Water solubility	: immiscible
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: > 250 °C
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Explosivity	: Formation of explosive air/vapour mixtures is possible.
Oxidizing properties	: no data available

9.2. Other information

No further information available.

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

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Hazardous decomposition : Carbon monoxide, Carbon dioxide (CO₂), Hydrocarbons, No products decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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 : Please find this information in the listing of the component/components below in this section.
 Mutagenicity : Please find this information in the listing of the component/components below in this section.
 Teratogenicity : Please find this information in the listing of the component/components below in this section.
 Reproductive toxicity : Please find this information in the listing of the component/components below in this section.

Specific Target Organ Toxicity

Single exposure

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no data available

Repeated exposure

no data available

Other toxic properties
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
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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.

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

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

SECTION 12: Ecological information

NITRO THINNER IA**12.1. Toxicity**

Component:	2-methylpropan-1-ol	CAS-No. 78-83-1
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Acute toxicity**Fish**

LC50 : 1430 mg/l (Pimephales promelas (fathead minnow); 96 h) (flow-through test)

Toxicity to daphnia and other aquatic invertebrates

EC50 : 1100 mg/l (Daphnia pulex (Water flea); 48 h) (static test; ASTM E 1193-97)

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)

Component:	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
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Acute toxicity**Fish**

LL50 : 12 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h)

Toxicity to daphnia and other aquatic invertebrates

EL50 : 3 mg/l (Daphnia magna (Water flea); 48 h)

algae

ErL50 : 55 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h)
 NOELR : 30 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h)

Component:	toluene	CAS-No. 108-88-3
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NITRO THINNER IA**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

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

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Data for the product

Results of PBT and vPvB assessment

Result : This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB)., This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

12.6. Other adverse effects

Component:	toluene	CAS-No. 108-88-3
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Additional ecological information

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

Component:	acetone	CAS-No. 67-64-1
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Additional ecological information

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

SECTION 13: Disposal considerations

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

1263

14.2. UN proper shipping name

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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 No; Tunnel restriction code) 3; F1; 33; (D/E)
RID-Class : 3
(Labels; Classification Code; Hazard
identification No) 3; F1; 33
IMDG-Class : 3
(Labels; EmS) 3; F-E, S-E

14.4. Packaging group

ADR : II
RID : II
IMDG : II

14.5. Environmental hazards

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

IMDG : Not applicable.

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 : ; Not listed
List of Substances of
Very High Concern for
Authorization (SVHC)

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

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EU. Directive 2012/18/EU (SEVESO III) Annex I	:	Lower-tier requirements: 5.000 tonnes; Part 1: Categories of dangerous substances; P5c: Flammable liquids, Categories 2 or 3 not covered by P5a and P5b Upper-tier requirements: 50.000 tonnes; Part 1: Categories of dangerous substances; P5c: Flammable liquids, Categories 2 or 3 not covered by P5a and P5b
Regulation about combustible liquids (VbF).	:	A I: Flash point less than 21 °C, at 15 °C not miscible in water
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

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.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and Acronyms

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
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances

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GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
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
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

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.
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.

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