

# Safety Data Sheet

## SHOP PRIMER SP10-E THINNER

AkzoNobel

Safety Data Sheet dated 31/3/2020, version 3

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

- 1.1. Product identifier  
Trade name: SHOP PRIMER SP10-E THINNER  
Trade code: 12010500X
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Recommended use:  
Thinner
- 1.3. Details of the supplier of the safety data sheet  
Company:  
MAPAERO SAS  
10, Avenue de la Rijole  
09100 PAMIERS  
FRANCE  
Tel : +33 (0)5 34 01 34 01 / Fax : +33 (0)5 61 60 23 30
- Competent person responsible for the safety data sheet:  
PSRA\_PAMIERS@akzonobel.com
- 1.4. Emergency telephone number  
Tel: 0044 151 951 3317

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture  
EC regulation criteria 1272/2008 (CLP)
- ⚠ Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
  - ⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
  - ⚠ Warning, STOT SE 3, May cause respiratory irritation.
  - ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.
- Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P370+P378 In case of fire, use a foam fire extinguisher to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

None

Contains

- 4-methylpentan-2-one; isobutyl methyl ketone
- 1-methoxy-2-propanol; monopropylene glycol methyl ether
- butanone; ethyl methyl ketone

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

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### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 25% - < 50%	4-methylpentan-2-one; isobutyl methyl ketone	Index number: 606-004-00-4 CAS: 108-10-1 EC: 203-550-1 REACH No.: 01-2119473980-30	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H335 ⚠ 3.1/4/Inhal Acute Tox. 4 H332 EUH066
>= 25% - < 30%	1-methoxy-2-propanol; monopropylene glycol methyl ether	Index number: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1 REACH No.: 01-2119457435-35	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H336
>= 25% - < 30%	ethanol; ethyl alcohol	CAS: 64-17-5 EC: 200-578-6 REACH No.: 01-2119457610-43	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.3/2 Eye Irrit. 2 H319
>= 10% - < 20%	cyclohexanone	Index number: 606-010-00-7 CAS: 108-94-1 EC: 203-631-1 REACH No.: 01-2119453616-35	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.1/4/Inhal Acute Tox. 4 H332
>= 0.5% - < 2.5%	butanone; ethyl methyl ketone	Index number: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 REACH No.: 01-2119457290-43	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H336 EUH066

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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## SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a foam fire extinguisher to extinguish.

Water with AFFF (Aqueous Film Forming Foam) additive

Foam

Unsuitable methods of extinction :

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, organic, sand

### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

### 6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Use localized ventilation system.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
See also section 8 for recommended protective equipment.  
Advice on general occupational hygiene:  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.

### 7.2. Conditions for safe storage, including any incompatibilities

Stored between 5°C and 35°C (41°F and 95°F) in full and sealed original packaging.  
Always keep in a well ventilated place.  
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.  
Keep away from food, drink and feed.  
Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Cool and adequately ventilated.

### 7.3. Specific end use(s)

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1  
- OEL Type: TWA - TWA: 83 mg/m<sup>3</sup>, 20 ppm  
- OEL Type: EU - TWA(8h): 83 mg/m<sup>3</sup>, 20 ppm - STEL: 208 mg/m<sup>3</sup>, 50 ppm  
- OEL Type: ACGIH - TWA(8h): 20 ppm - STEL: 75 ppm  
- OEL Type: VME - TWA(8h): 83 mg/m<sup>3</sup>, 20 ppm - STEL: 208 mg/m<sup>3</sup>, 50 ppm  
- OEL Type: AGS - TWA(8h): 83 mg/m<sup>3</sup>, 20 ppm - STEL: 166 mg/m<sup>3</sup>, 40 ppm  
- OEL Type: DFG - TWA(8h): 83 mg/m<sup>3</sup>, 20 ppm - STEL: 166 mg/m<sup>3</sup>, 40 ppm  
- OEL Type: MAK-TMW - TWA(8h): 83 mg/m<sup>3</sup>, 20 ppm

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- OEL Type: MAK-KZW - STEL(15min): 208 mg/m<sup>3</sup>, 50 ppm
- OEL Type: WEL - TWA(8h): 208 mg/m<sup>3</sup>, 50 ppm - STEL(15min): 416 mg/m<sup>3</sup>, 100 ppm
- 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
  - OEL Type: VLCT - TWA: 370 mg/m<sup>3</sup>, 100 ppm
  - OEL Type: STEL - TWA: 568 mg/m<sup>3</sup>, 150 ppm
  - OEL Type: TWA - TWA: 375 mg/m<sup>3</sup>, 100 ppm
  - OEL Type: EU - TWA(8h): 375 mg/m<sup>3</sup>, 100 ppm - STEL: 563 mg/m<sup>3</sup>, 150 ppm
  - OEL Type: ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm
  - OEL Type: AGS - TWA(8h): 370 mg/m<sup>3</sup>, 100 ppm - STEL: 740 mg/m<sup>3</sup>, 200 ppm
- ethanol; ethyl alcohol - CAS: 64-17-5
  - OEL Type: VME - TWA(8h): 1900 mg/m<sup>3</sup>, 1000 ppm
  - OEL Type: ACGIH - STEL: 1000 ppm
  - OEL Type: VLCT - STEL: 9500 mg/m<sup>3</sup>, 5000 ppm
  - OEL Type: AGS - TWA(8h): 960 mg/m<sup>3</sup>, 500 ppm - STEL: 1920 mg/m<sup>3</sup>, 1000 ppm
- cyclohexanone - CAS: 108-94-1
  - OEL Type: STEL - STEL: 81.6 mg/m<sup>3</sup>, 20 ppm
  - OEL Type: VME - TWA: 40.8 mg/m<sup>3</sup>, 10 ppm - STEL: 81.6 mg/m<sup>3</sup>, 20 ppm
  - OEL Type: EU - TWA(8h): 40.8 mg/m<sup>3</sup>, 10 ppm - STEL: 81.6 mg/m<sup>3</sup>, 20 ppm
  - OEL Type: ACGIH - TWA(8h): 20 ppm - STEL: 50 ppm
  - OEL Type: AGS - TWA(8h): 80 mg/m<sup>3</sup>, 20 ppm - STEL: 80 mg/m<sup>3</sup>, 20 ppm
  - OEL Type: TWA - TWA(8h): 41 mg/m<sup>3</sup>, 10 ppm - STEL: 82 mg/m<sup>3</sup>, 20 ppm
- butanone; ethyl methyl ketone - CAS: 78-93-3
  - OEL Type: VME - TWA(8h): 600 mg/m<sup>3</sup>, 200 ppm - STEL: 900 mg/m<sup>3</sup>, 300 ppm
  - OEL Type: TWA - TWA(8h): 600 mg/m<sup>3</sup>, 200 ppm
  - OEL Type: STEL - STEL: 900 mg/m<sup>3</sup>, 300 ppm
  - OEL Type: EU - TWA(8h): 600 mg/m<sup>3</sup>, 200 ppm - STEL: 900 mg/m<sup>3</sup>, 300 ppm
  - OEL Type: ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm
  - OEL Type: AGS - TWA(8h): 600 mg/m<sup>3</sup>, 200 ppm - STEL: 600 mg/m<sup>3</sup>, 200 ppm

### DNEL Exposure Limit Values

- 4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1
  - Worker Professional: 208 mg/m<sup>3</sup> - Consumer: 155.2 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects
  - Worker Professional: 83 mg/m<sup>3</sup> - Consumer: 14.7 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects
  - Worker Professional: 11.8 mg/kg bw/day - Consumer: 4.2 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
  - Consumer: 4.2 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
  - Worker Professional: 208 mg/m<sup>3</sup> - Consumer: 155.2 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
  - Worker Professional: 83 mg/m<sup>3</sup> - Consumer: 14.7 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
  - Worker Professional: 553.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects
  - Worker Professional: 50.6 mg/kg bw/day - Consumer: 18.1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
  - Worker Professional: 369 mg/m<sup>3</sup> - Consumer: 43.9 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
  - Consumer: 3.3 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
- ethanol; ethyl alcohol - CAS: 64-17-5
  - Worker Professional: 343 mg/kg bw/day - Consumer: 206 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
  - Worker Professional: 950 mg/m<sup>3</sup> - Consumer: 114 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
  - Worker Professional: 1900 mg/m<sup>3</sup> - Consumer: 950 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects
  - Consumer: 87 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
- cyclohexanone - CAS: 108-94-1

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Worker Professional: 10 mg/kg bw/day - Consumer: 20 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term (repeated)

Worker Professional: 100 mg/m<sup>3</sup> - Consumer: 20 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term (repeated)

Consumer: 5 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, local effects

butanone; ethyl methyl ketone - CAS: 78-93-3

Worker Professional: 1161 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 600 mg/m<sup>3</sup> - Consumer: 106 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 31 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 412 mg/kg bw/day - Exposure: Human Dermal - Frequency: Short Term, local effects

### PNEC Exposure Limit Values

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1

Target: Fresh Water - Value: 0.6 mg/l

Target: Marine water - Value: 0.06 mg/l

Target: Freshwater sediments - Value: 8.27 mg/kg dwt

Target: Marine water - Value: 0.83 mg/kg dwt

Target: Soil (agricultural) - Value: 1.3 mg/kg dwt

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Target: Fresh Water - Value: 10 mg/l

Target: Marine water - Value: 100 mg/l

Target: Freshwater sediments - Value: 41.6 mg/kg

Target: Marine water sediments - Value: 4.17 mg/kg

Target: Soil (agricultural) - Value: 2.47 mg/kg

Target: Microorganisms in sewage treatments - Value: 100 mg/l

ethanol; ethyl alcohol - CAS: 64-17-5

Target: Fresh Water - Value: 0.96 mg/l

Target: Marine water - Value: 0.79 mg/l

Target: Freshwater sediments - Value: 3.6 mg/kg dwt

Target: Marine water sediments - Value: 2.9 mg/kg dwt

Target: Microorganisms in sewage treatments - Value: 580 mg/l

Target: Soil (agricultural) - Value: 0.63 mg/kg dwt

cyclohexanone - CAS: 108-94-1

Target: Fresh Water - Value: 0.0329 mg/l

butanone; ethyl methyl ketone - CAS: 78-93-3

Target: Fresh Water - Value: 55.8 mg/l

Target: Marine water - Value: 55.8 mg/l

Target: Freshwater sediments - Value: 284.7 mg/kg dwt

Target: Soil (agricultural) - Value: 22.5 mg/kg

### 8.2. Exposure controls

#### Eye protection:

Before handling, wear safety goggles with protective sides accordance with standard EN166.

#### Protection for skin:

Wear protective clothing against solid chemicals and particles suspended in the air (type 5) in accordance with standard EN13982-1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

#### Protection for hands:

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

#### Respiratory protection:

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Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 : A2

Particle filter according to standard EN143 : P3  
Full-/Half-/quarter-face masks (DIN EN 136/140).

Thermal Hazards:

None

Environmental exposure controls:

It is recommended using all available means to prevent and regulate exposure in compliance with legal requirements.

Use all the appropriate means to keep suspended dust levels under exposure limits.

Appropriate engineering controls:

None

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance and colour:	Liquid
Odour:	Solvent odor
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	-77.9 °C
Initial boiling point and boiling range:	77 °C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	PE < 23 °C
Evaporation rate:	N.A.
Vapour pressure:	<110 kPa (1.10 bar)
Relative density:	<1
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	363 °C
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

#### 9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties:	N.A.

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Stable under normal conditions

#### 10.3. Possibility of hazardous reactions

Exposed to high temperatures, the mixture can release hazardous decomposition products.

10.4. Conditions to avoid

Flames and hot surfaces  
The accumulation of electrostatic discharges  
The humidity  
The heating  
The heat

10.5. Incompatible materials

Acids  
Oxidizing agents  
Bases  
Water

10.6. Hazardous decomposition products

Nitrogen oxides  
Carbon oxides

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**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2080 mg/kg - Source: OCDE 401

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 11.6 mg/l - Duration: 4h - Source: OCDE 403

Test: LD0 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OCDE 402

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Duration: 4h - Source: OCDE 404

Test: Eye Irritant - Species: Rabbit Positive - Source: OCDE 405

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin Negative - Source: OCDE 406

g) reproductive toxicity:

Test: NOAEL - Route: Inhalation - Species: Rat = 4.1 mg/l

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4016 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 25.8 mg/l - Duration: 6H

Test: LD50 - Route: Skin - Species: Rabbit = 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Duration: 4h

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Negative

h) STOT-single exposure:

Test: Nervous system Negative

ethanol; ethyl alcohol - CAS: 64-17-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 20 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

c) serious eye damage/irritation:



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- Test: Eye Irritant - Route: Skin Yes  
cyclohexanone - CAS: 108-94-1
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 1620 g/kg  
Test: LC50 - Route: Inhalation Vapour - Species: Rat = 11 mg/l - Duration: 4h  
Test: LD50 - Route: Skin - Species: Rabbit = 1100 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat = 8000 mg/l - Duration: 4h
- butanone; ethyl methyl ketone - CAS: 78-93-3
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 3300 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit = 7200 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat = 34 mg/l - Duration: 4h
- c) serious eye damage/irritation:  
Test: Eye Irritant - Route: Skin - Species: Rabbit Yes

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;  
b) skin corrosion/irritation;  
c) serious eye damage/irritation;  
d) respiratory or skin sensitisation;  
e) germ cell mutagenicity;  
f) carcinogenicity;  
g) reproductive toxicity;  
h) STOT-single exposure;  
i) STOT-repeated exposure;  
j) aspiration hazard.

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

4-methylpentan-2-one; isobutyl methyl ketone - CAS: 108-10-1

- a) Aquatic acute toxicity:  
Endpoint: LC50 Fish > 179 mg/l - Duration h: 96  
Endpoint: EC50 Daphnia > 200 mg/l - Duration h: 48  
Endpoint: EC50 Bacteria = 275 mg/l - Duration h: 16

- b) Aquatic chronic toxicity:  
Endpoint: NOEC Daphnia = 30-35 mg/l - Duration h: 504

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

- a) Aquatic acute toxicity:  
Endpoint: LC50 Fish = 6812 mg/l - Duration h: 96 - Notes: Leuciscus idus  
Endpoint: LC50 Fish > 1000 mg/l - Duration h: 96  
Endpoint: LC50 Daphnia = 23500 mg/l - Duration h: 48  
Endpoint: EC50 Algae > 1000 mg/l  
Endpoint: CI50 Bacteria = 1000 mg/l - Duration h: 3

- b) Aquatic chronic toxicity:  
Endpoint: LC50 Fish = 20800 mg/l - Duration h: 96

ethanol; ethyl alcohol - CAS: 64-17-5

- a) Aquatic acute toxicity:  
Endpoint: LC50 Fish = 15300 mg/l - Duration h: 96  
Endpoint: LC50 Fish = 11200 mg/l - Duration h: 24  
Endpoint: EC50 Daphnia = 858 mg/l - Duration h: 24  
Endpoint: EC50 Daphnia > 1000 mg/l - Duration h: 48  
Endpoint: LC50 Daphnia = 5012 mg/l - Duration h: 48  
Endpoint: EC50 Algae = 275 mg/l - Duration h: 72  
Endpoint: EC10 Algae = 11.5 mg/l - Duration h: 72

cyclohexanone - CAS: 108-94-1

- a) Aquatic acute toxicity:

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Endpoint: LC50 Fish = 732 mg/l - Duration h: 96  
butanone; ethyl methyl ketone - CAS: 78-93-3  
a) Aquatic acute toxicity:  
Endpoint: LC50 Fish = 2993 mg/l - Duration h: 96  
Endpoint: EC50 Daphnia = 308 mg/l - Duration h: 48  
Endpoint: EC50 Algae = 2029 mg/l - Duration h: 96

### 12.2. Persistence and degradability

N.A.

### 12.3. Bioaccumulative potential

N.A.

### 12.4. Mobility in soil

N.A.

### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

### 12.6. Other adverse effects

None

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. The codes for waste (Decision 2001/573/CE, Directive 2006/12/CEE, Directive 94/31/CEE on hazardous waste) :

- 08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances
- 15 01 10\* packaging containing residues of or contaminated by hazardous substances

Additional disposal information:

Do not discharge into drains, water, nature.

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## SECTION 14: Transport information

### 14.1. UN number

ADR-UN Number:	1263
IATA-UN Number:	1263
IMDG-UN Number:	1263

### 14.2. UN proper shipping name

ADR-Shipping Name:	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) (vapour pressure at 50 °C more than 110 kPa)
IATA-Shipping Name:	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) (vapour pressure at 50 °C more than 110 kPa)

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IMDG-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound) (vapour pressure at 50 °C more than 110 kPa)

### 14.3. Transport hazard class(es)



ADR-Class: 3  
ADR - Hazard identification number: 33  
IATA-Class: 3  
IATA-Label: 3  
IMDG-Class: 3

### 14.4. Packing group

ADR-Packing Group: II  
IATA-Packing group: II  
IMDG-Packing group: II

### 14.5. Environmental hazards

ADR-Environmental Pollutant: No  
IMDG-Marine pollutant: No

### 14.6. Special precautions for user

ADR-Subsidiary hazards: -  
ADR-S.P.: 163 367 640C 650  
ADR-Transport category (Tunnel restriction code): 2 (D/E)  
IATA-Passenger Aircraft: 353  
IATA-Subsidiary hazards: -  
IATA-Cargo Aircraft: 364  
IATA-S.P.: A3 A72 A192  
IATA-ERG: 3L  
IMDG-EmS: F-E , S-E  
IMDG-Subsidiary hazards: -  
IMDG-Stowage and handling: Category B  
IMDG-Segregation: -

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

N.A.

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## SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)

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Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/699 (ATP 11 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 30

Volatile Organic compounds - VOCs = 845.70 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.00

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H332 Harmful if inhaled.

EUH066 Repeated exposure may cause skin dryness or cracking.

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

Paragraphs modified from the previous revision:

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SECTION 1: Identification of the substance/mixture and of the company/undertaking  
SECTION 2: Hazards identification  
SECTION 7: Handling and storage  
SECTION 8: Exposure controls/personal protection  
SECTION 11: Toxicological information  
SECTION 13: Disposal considerations  
SECTION 14: Transport information  
SECTION 15: Regulatory information  
SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 2, H225	On basis of test data
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method

This document was prepared by a competent person who has received appropriate training.  
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.  
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ATE: Acute Toxicity Estimate  
ATEmix: Acute toxicity Estimate (Mixtures)  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
PNEC: Predicted No Effect Concentration.

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RID: Regulation Concerning the International Transport of Dangerous Goods  
by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWA: Time-weighted average  
WGK: German Water Hazard Class.