

Safety Data Sheet

DIESTONE S - P28211

Safety Data Sheet date: 27/3/2024, version 1

1. Identification

GHS Product Identifier

Mixture identification:

Trade name: DIESTONE S

SDS code: P28211

Recommended use of the chemical and restrictions on use

Recommended use:

Solvent

Cleaner

Industrial uses

Restrictions on use:

No uses advised against are identified.

Supplier's details

Manufacturers:

Socomore SASU - Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France

-Tel. +33 (0)2 97 43 76 90

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Competent person responsible for the safety data sheet:

techdirsocomore@socomore.com

Emergency phone number:

New Zealand emergency phone number: 0800 764 766 (0800 POISON)

International : CHEMTEL +1-813-248-0585.

2. Hazards identification

Classification complies with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS Ed.7) and is consistent with ERMA New Zealand Approval number (HSNO) which is reported in Section 15.

- ⚠ Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
- ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
- ⚠ Danger, Eye Dam. 1, Causes serious eye damage.
- ⚠ Danger, Repr. 1A, May damage fertility or the unborn child.
- ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.

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Aquatic Acute 3, Harmful to aquatic life.

GHS label elements, including precautionary statements

Hazard pictograms:



Danger

Hazard statements:

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H360 May damage fertility or the unborn child.
- H336 May cause drowsiness or dizziness.
- H402 Harmful to aquatic life.

Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P261 Avoid breathing vapours.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/clothing and eye/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P370+P378 In case of fire: Use a CO2 fire extinguisher to extinguish.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with applicable regulations.

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Special Provisions:

None

Other hazards which do not result in a classification:

No other hazards

3. Composition/information on ingredients

Substances

N.A.




(N.A. = not applicable)

Mixtures

Hazardous components within the meaning of GHS and related classification:

>= 60% - < 70% Acetone; propan-2-one; propanone

REACH No.: 01-2119471330-49, Index number: 606-001-00-8, CAS: 67-64-1, EC: 200-662-2

-  2.6/2 Flam. Liq. 2 H225
-  3.3/2A Eye Irrit. 2A H319
-  3.8/3 STOT SE 3 H336



>= 12.5% - < 15% 2-methylpropan-1-ol; iso-butanol

REACH No.: 01-2119484609-23, Index number: 603-108-00-1, CAS: 78-83-1, EC: 201-148-0

-  2.6/3 Flam. Liq. 3 H226
- 3.1/5/Oral Acute Tox. 5 H303
- 3.1/5/Dermal Acute Tox. 5 H313
-  3.2/2 Skin Irrit. 2 H315
-  3.3/1 Eye Dam. 1 H318
- 4.1/A2 Aquatic Acute 2 H401





>= 10% - < 12.5% n-butyl acetate

REACH No.: 01-2119485493-29, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1

-  2.6/3 Flam. Liq. 3 H226
-  3.8/3 STOT SE 3 H336

>= 7% - < 10% butanone; ethyl methyl ketone

REACH No.: 01-2119457290-43, Index number: 606-002-00-3, CAS: 78-93-3, EC: 201-159-0

-  3.2/2 Skin Irrit. 2 H315
-  2.6/2 Flam. Liq. 2 H225
-  3.3/2A Eye Irrit. 2A H319
-  3.8/3 STOT SE 3 H336

>= 1% - < 3% 2-methoxy-1-methylethyl acetate

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REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9

- ◆ 2.6/3 Flam. Liq. 3 H226
- ◆ 3.7/1A Repr. 1A H360
- 4.1/A3 Aquatic Acute 3 H402

% = weight/weight

NOTE: The Hazard Classifications listed in this section refer to the chemical at a pure concentration. The actual concentration of chemicals has been withheld as trade secret.

4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose of 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 induce vomiting. Obtain a medical examination.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed, if necessary

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

Treatment:

No particular treatment.

5. Fire-fighting measures

Suitable extinguishing media

In case of fire: Use a CO2 fire extinguisher to extinguish.

Unsuitable extinguishing media

None in particular.

Special hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

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None

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective actions for fire-fighters

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

For emergency responders:

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

Methods and material for containment and cleaning up

Wash with plenty of water.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store at ambient temperatures. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

8. Exposure controls/personal protection

Control parameters

Acetone; propan-2-one; propanone - CAS: 67-64-1

- OEL Type: National - TWA(8h): 1200 mg/m³ - Notes: Germany - Notes DFG

- OEL Type: National - TWA(8h): 1210 mg/m³, 500 ppm - STEL: 2420 mg/m³, 1000 ppm

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- Notes: France VLEC - TMP N° 84
 - OEL Type: EU - TWA(8h): 1210 mg/m³, 500 ppm
 - OEL Type: ACGIH - TWA(8h): 250 ppm - STEL: 500 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
 - OEL Type: National - TWA: 1200 mg/m³, 500 ppm - STEL(15'): 4800 mg/m³, 2000 ppm
 - Notes: Ostereich
 - OEL Type: National - TWA(8h): 1210 mg/m³, 500 ppm - STEL(15min (Miw)): 3620 mg/m³, 1500 ppm - Notes: United Kingdom
- 2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1
 - OEL Type: ACGIH - TWA(8h): 50 ppm - Notes: Skin and eye irr
 - OEL Type: National - TWA: 150 mg/m³, 50 ppm - Notes: INRS, indicative limit
 - OEL Type: National - TWA: 50 ppm - STEL: 75 ppm - Notes: DOW IHG
 - OEL Type: National - TWA: 154 mg/m³, 50 ppm - STEL: 231 mg/m³, 75 ppm - Notes: WEL, Great Britain
 - OEL Type: National - TWA: 310 mg/m³, 100 ppm - Notes: TRGS 900, AGW (Germany)
 - OEL Type: OSHA PEL - TWA(8h): 300 mg/m³, 100 ppm - Notes: USA
 - OEL Type: NIOSH REL - TWA(Up to 10h): 150 mg/m³, 50 ppm - Notes: USA
- n-butyl acetate - CAS: 123-86-4
 - OEL Type: National - TWA: 241 mg/m³, 50 ppm - STEL: 723 mg/m³, 150 ppm - Behaviour: Binding - Notes: France, VLEPC
 - OEL Type: National - TWA: 150 ppm - STEL: 200 ppm - Notes: United Kingdom
 - OEL Type: National - TWA(8h): 300 mg/m³, 62 ppm - Notes: Germany
 - OEL Type: ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr
 - OEL Type: National - TWA(8h): 238 mg/m³, 50 ppm - STEL: 712 mg/m³, 150 ppm - Notes: BELGIQUE
 - OEL Type: National - TWA(8h): 480 mg/m³, 99 ppm - Notes: PAYS-BAS
 - OEL Type: National - TWA: 480 mg/m³, 100 ppm - STEL(Mow): 480 mg/m³, 100 ppm - Notes: Österreich
 - OEL Type: EU - TWA(8h): 241 mg/m³, 50 ppm - STEL: 723 mg/m³, 150 ppm
- butanone; ethyl methyl ketone - CAS: 78-93-3
 - OEL Type: National - TWA: 600 mg/m³, 200 ppm - STEL: 900 mg/m³, 300 ppm - Notes: France VLEC
 - OEL Type: EU - TWA(8h): 600 mg/m³, 200 ppm - STEL: 900 mg/m³, 300 ppm
 - OEL Type: ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr, CNS and PNS impair
 - OEL Type: National - TWA: 600 mg/m³, 200 ppm - Notes: AGW, Germany
 - OEL Type: MAK - TWA: 295 mg/m³, 100 ppm - STEL(30min (Miw)): 590 mg/m³, 200 ppm - Notes: Österreich
 - OEL Type: National - TWA: 450 mg/m³ - STEL: 900 mg/m³ - Notes: Poland (Dz.U. 2018 pos. 1286)
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 - OEL Type: ACGIH - TWA(8h): 150 ppm - STEL: 100 ppm
 - OEL Type: National - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Behaviour: Binding - Notes: France VLEPC
 - OEL Type: National - TWA(8h): 270 mg/m³, 50 ppm - Notes: GERMANY

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- OEL Type: National - TWA(8h): 274 mg/m³, 50 ppm - STEL: 548 mg/m³, 100 ppm -

Notes: UK (WELs)

- OEL Type: National - TWA: 260 mg/m³ - STEL: 520 mg/m³ - Notes: POLAND

- OEL Type: EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin

- OEL Type: AIHA

- TWA: 50 ppm

- OEL Type: National - TWA: 275 mg/m³, 50 ppm - STEL(5 min (Mow)): 550 mg/m³, 100 ppm - Notes: Österreich

- OEL Type: National - TWA: 270 mg/m³, 50 ppm - Notes: Norway (Skin)

DNEL Exposure Limit Values

Acetone; propan-2-one; propanone - CAS: 67-64-1

Worker Industry: 2420 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects - Notes: 1h

Worker Industry: 186 mg/kg - Consumer: 62 mg/kg - Exposure: Human Dermal - Frequency: Short Term (acute) - Notes: 8h for workers, 24h for consumer

Worker Industry: 1210 mg/m³ - Consumer: 200 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute) - Notes: 24h for consumer

Consumer: 62 mg/kg - Exposure: Human Oral - Frequency: Short Term (acute)

Worker Industry: 500 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

Worker Industry: 310 mg/m³ - Consumer: 55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 310 mg/m³ - Consumer: 55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 25 mg/kg - Exposure: Human Oral

n-butyl acetate - CAS: 123-86-4

Worker Industry: 11 mg/kg - Consumer: 6 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 300 mg/m³ - Consumer: 35.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 600 mg/m³ - Consumer: 300 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 11 mg/kg - Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Worker Industry: 600 mg/m³ - Consumer: 300 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 300 mg/m³ - Consumer: 35.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 11 mg/kg - Consumer: 6 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

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

Worker Industry: 1161 mg/kg - Consumer: 412 mg/kg - Exposure: Human Dermal -

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Frequency: Short Term (acute) - Notes: 1 day

Worker Industry: 600 mg/m³ - Consumer: 106 mg/m³ - Exposure: Human Inhalation -
Frequency: Short Term (acute)

Consumer: 31 mg/kg - Exposure: Human Oral - Frequency: Short Term (acute)

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Worker Industry: 796 mg/kg b.w./day - Consumer: 320 mg/kg b.w./day - Exposure: Human
Dermal - Frequency: Long Term, systemic effects

Worker Industry: 275 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation -
Frequency: Long Term, systemic effects

Consumer: 36 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic
effects

Worker Industry: 550 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation -
Frequency: Long Term, local effects

PNEC Exposure Limit Values

Acetone; propan-2-one; propanone - CAS: 67-64-1

Target: Fresh Water - Value: 10.6 mg/l

Target: Marine water - Value: 1.06 mg/l

Target: Freshwater sediments - Value: 30.4 mg/kg

Target: Marine water sediments - Value: 3.04 mg/kg

Target: Soil - Value: 29.5 mg/kg

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

Target: Water (intermittent discharge) - Value: 21 mg/l

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

Target: Fresh Water - Value: 0.4 mg/l

Target: Marine water - Value: 0.04 mg/l

Target: Marine water sediments - Value: 1.52 mg/kg

Target: Freshwater sediments - Value: 0.152 mg/kg

Target: Microorganisms in sewage treatments - Value: 10 mg/l

Target: Soil (agricultural) - Value: 0.0699 mg/kg

Target: Water (intermittent discharge) - Value: 11 mg/l

n-butyl acetate - CAS: 123-86-4

Target: Fresh Water - Value: 0.18 mg/l

Target: Marine water - Value: 0.018 mg/l

Target: Freshwater sediments - Value: 0.981 mg/kg

Target: Water (intermittent discharge) - Value: 0.36 mg/l

Target: Marine water sediments - Value: 0.0981 mg/kg

Target: Soil - Value: 0.0903 mg/kg

Target: Microorganisms in sewage treatments - Value: 35.6 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: 284.74 mg/kg

Target: Marine water sediments - Value: 287.7 mg/kg

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

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

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Target: Fresh Water - Value: 0.635 mg/l
 Target: Marine water - Value: 0.0635 mg/l
 Target: Microorganisms in sewage treatments - Value: 100 mg/l
 Target: Freshwater sediments - Value: 3.29 mg/kg dw
 Target: Marine water sediments - Value: 0.329 mg/kg dw
 Target: Soil - Value: 0.29 mg/kg
 Target: PNEC intermittent - Value: 6.35 mg/l

Appropriate engineering controls:

None

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Safety goggles (EN 166)

Protection for skin:

Chemical protection clothing.

Protection for hands:

Suitable gloves type: NF EN374

PVA (Polyvinyl alcohol).

Butyl rubber (isobutylene-isoprene copolymer)

Respiratory protection:

Mask with filter "A1" , brown colour (NF EN14387)

Thermal Hazards:

None

9. Physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	N.A.	--	--
Odour:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	57 °C	NF T67-101	--
Flammability:	The product is classified: Highly flammable	--	--

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	liquid and vapour.		
Flash point (°C):	-18 °C	NF EN 2719	--
Upper/lower flammability or explosive limits:	1-11%	--	--
Vapour pressure:	< 240 hPa (20 °C)	--	--
Vapour density:	<3.8255	--	--
Relative density:	0.806	ISO 649, ASTM D1298	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	> 333 °C	--	--
Decomposition temperature:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

SECTION 10: Stability and reactivity

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

None

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

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None.

11. Toxicological information**Information on toxicological effects**

Toxicological information of the product:

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Acute toxicity

Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral 21938,1 mg/kg bw

ATEmix - Dermal 15504 mg/kg bw

Skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

Serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

Respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity

The product is classified: Repr. 1A H360

STOT-single exposure

The product is classified: STOT SE 3 H336

STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

Aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Acetone; propan-2-one; propanone - CAS: 67-64-1

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5800 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 76 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 15800 mg/kg

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2830 mg/kg - Based on available data, the

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classification criteria are not met

Test: LD50 - Route: Oral - Species: Rat < 3350 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 18.18 mg/l

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

Test: LD50 - Route: Skin - Species: Rabbit < 2460 mg/kg

Test: LC0 - Route: Inhalation - Species: Rat = 18.2 mg/m³ - Duration: 6 hours

STOT-single exposure:

Route: Inhalation 10 ppm

STOT-repeated exposure:

Test: NOAEL - Route: Inhalation - Species: Rat = 7.5 mg/l - Notes: 2500 ppm

n-butyl acetate - CAS: 123-86-4

Acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 10736 mg/kg

Test: LC50 - Route: Inhalation Dust - Species: Rat = 23.4 mg/l - Duration: 4h

Test: LC50 - Route: Inhalation Mist - Species: Rat = 23.4 mg/l - Duration: 4h

Test: LC50 - Route: Inhalation (aerosol) - Species: Rabbit (male, female) = 0.74 mg/l -

Duration: 4h - Source: OECD 403

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 21.1 mg/l - Duration: 4h - Source: OECD 403

Test: LC0 - Route: Inhalation Vapour - Species: Rat > 38.32 mg/l - Duration: 6 hours

Reproductive toxicity:

Test: LOAEC - Route: Inhalation Vapour - Species: Rat = 1500 ppm - Source: OECD 414

Test: NOAEC - Route: Inhalation Vapour - Species: mouse (Male, female) = 2000 ppm -

Duration: 90 Jours - Source: OECD 416

STOT-repeated exposure:

Test: NOAEC - Route: Inhalation - Species: Rat (Male, female) = 500 ppm - Duration: 13 weeks - Source: EPA OTS 798.2450

Test: NOAEL - Route: Oral - Species: Rat (Male, female) = 125 mg/kg bw/day - Duration: 13 weeks

Test: LOAEL

- Route: Oral - Species: mouse (Male, female) = 500 mg/kg bw/day - Duration: 13 days

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

Acute toxicity:

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

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

Test: LC50 - Route: Inhalation > 5000 ppm

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD 401

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat > 10.8 mg/l

Test: LC50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: OECD 402

Test: LC0 - Route: Inhalation Vapour - Species: Rabbit = 23.5 mg/l - Source: OECD 403

Test: ATE - Route: Oral > 5000 mg/kg

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Test: ATE - Route: Inhalation Vapour > 23.5 mg/l - Duration: 6 hours

Test: ATE - Route: Skin > 5000 mg/kg

12. Ecological information

Toxicity

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

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The product is classified: Aquatic Acute 3 - H402

Acetone; propan-2-one; propanone - CAS: 67-64-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: Salmo gairdneri

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 96 - Notes: Pseudokirchneriella subcapitata

Endpoint: NOEC - Species: Algae = 430 mg/l - Duration h: 96 - Notes: Prorocentrum minimum, marine water

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 2212 mg/l - Duration h: 672 - Notes: Daphnia pulex

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1.430 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: EC50 - Species: Algae = 632 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Endpoint: NOEC - Species: Algae = 53 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: Daphnia = 1.100 mg/l - Duration h: 48

Endpoint: EC0 - Species: Algae = 350 mg/l

Endpoint: EC0 - Species: Fish = 280 mg/l - Notes: Pseudomonas putida

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 20 mg/l - Duration h: 504

f) Effects in sewage plants (activated sludge):

Endpoint: IC50 - Species: Fish > 1000 mg/l - Duration h: 16

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 647.7 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus

Endpoint: NOEC - Species: Algae = 200 mg/l - Notes: Desmodesmus subspicatus

Endpoint: EC50 - Species: Aquatic plants = 397 mg/l - Duration h: 72 - Notes: DIN 38412 Part. 9, Pseudokirchneriella subcapitata

Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96 - Notes: OECD 203, Pimephales promelas

Endpoint: EC50 - Species: bacteria = 356 mg/l - Duration h: 40 - Notes: Tetrahymena

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pyriformis

Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48 - Notes: OECD 202

Endpoint: ErC50 - Species: Aquatic plants = 397 mg/l - Duration h: 72 - Notes: OECD 201, Pseudokirchneri

ella subcapitata

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 23 mg/l - Duration h: 504 - Notes: OCDE 211

Endpoint: NOEC - Species: Aquatic plants = 196 mg/l - Duration h: 72 - Notes: OECD 201, Pseudokirchneri

ella subcapitata

Endpoint: IC50 - Species: bacteria = 356 mg/l - Duration h: 40 - Notes: TETRATOX assay, Tetrahymena pyriformis

d) Terrestrial toxicity:

Endpoint: EC50 > 1000 mg/kg - Duration h: 336 - Notes: Lactuca sativa

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

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 13 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 168 - Notes: Desmodesmus subspicatus

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Aquatic plants > 1000 mg/l - Duration h: 72 - Notes: Selenastrum capricornutum, OECD 201

Endpoint: LC50 - Species: Fish = 134 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss, OECD 203

Endpoint: EC50 - Species: Invertebrates > 500 mg/l - Duration h: 48 - Notes: Daphnia magna

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 47.5 mg/l - Duration h: 336 - Notes: Oryzias latipes, OECD 204

Endpoint: NOEC - Species: Invertebrates > 100 mg/l - Duration h: 504 - Notes: Daphnia magna, OECD 202

Persistence and degradability

Acetone; propan-2-one; propanone - CAS: 67-64-1

Biodegradability: Readily biodegradable - Duration: 28 days - %: 91

Biodegradability: Chemical Oxygen Demand (COD) - Notes: 2,21 g O₂/g matière

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

Biodegradability: Biodegradability rate - Duration: 28 days - %: 70-80

Biodegradability: Biodegradation in water - Test: OECD 301C - Duration: 14 days - %: 90

Biodegradability: Photodegradation (in air) - overall half-life time - Test: Degradation by OH radicals: Direct photolysis - Duration: 56 hours

n-butyl acetate - CAS: 123-86-4

Biodegradability: Biodegradability rate - Test: OECD 301D - Duration: 5 days - %: 83% -

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Notes: CEE 92/69, C.4-E

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

Biodegradability: Readily biodegradable - Duration: 28 days - %: 98 - Notes: aerobic

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Biodegradability: Biological oxygen demand (BOD) - Test: OECD 301F - Duration: 28 days
- %: 83% - Notes: ISO 9408; 92/69/CEE, C.4-D

Bioaccumulative potential

Acetone; propan-2-one; propanone - CAS: 67-64-1

BCF 3

Log Pow - 0.24 - Notes: 20 °C

Log Kow 0.17 - Notes: 20 °C

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

Almost non bioaccumulative

Log Kow - Test: OECD 107 0.79

n-butyl acetate - CAS: 123-86-4

BCF 15.3

Log Kow 2.3 - Notes: 25 °C

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

Log Pow 0.3

Log Kow 0.3

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

BCF < 100

Log Pow < 3

Mobility in soil

Acetone; propan-2-one; propanone - CAS: 67-64-1

Volatility (H: Henry's Law Constant) 2929-3070 Pa.m³/mol - Notes: 25 °C (low volatility)

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

Distribution between environmental compartments - Test: Koc 67.92 % - Notes: Water

Distribution between environmental compartments - Test: Koc 32.02 % - Notes: Air

Distribution between environmental compartments - Test: Koc 0.03 % - Notes: Soil

Distribution between environmental compartments - Test: Koc 0.03 % - Notes: Sediment

Surface tension 69.7 mN/m - Notes: 20 °C

Volatility (H: Henry's Law Constant) 1.01E+00 Pa.m³/mol - Notes: 25 °C (calculated)

Log Koc 0.31 - Notes: (calculated)

n-butyl acetate - CAS: 123-86-4

Log Koc 1.268

Volatility (H: Henry's Law Constant) 28.5 Pa.m³/mol - Notes: 25 °C

Other adverse effects

No harmful effects expected.

13. Disposal considerations

Disposal methods:

Disposal should be in accordance with applicable regional, national and local laws and regulations. Please consult Technical Data Sheet for details.

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14. Transport information



UN number

ADR-UN Number: 1993
 IATA-UN Number: 1993
 IMDG-UN Number: 1993

UN proper shipping name

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (acetone; propan-2-one; propanone, 2-methylpropan-1-ol; iso-butanol)
 IATA-Shipping Name: FLAMMABLE LIQUID, N.O.S. (acetone; propan-2-one; propanone, 2-methylpropan-1-ol; iso-butanol)
 IMDG-Shipping Name: FLAMMABLE LIQUID, N.O.S. (acetone; propan-2-one; propanone, 2-methylpropan-1-ol; iso-butanol)

Transport hazard class(es)

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

Packing group, if applicable

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

Environmental hazards

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

Special precautions for user

ADR-Subsidiary hazards: -
 ADR-S.P.: 274 601 640C
 ADR-Transport category (Tunnel restriction code): 2 (D/E)
 IATA-Passenger Aircraft: 353
 IATA-Subsidiary hazards: -
 IATA-Cargo Aircraft: 364
 IATA-S.P.: A3
 IATA-ERG: 3H
 IMDG-EmS: F-E , S-E
 IMDG-Subsidiary hazards: -
 IMDG-Stowage and handling: Category B
 IMDG-Segregation: -

Transport in bulk according to IMO instruments

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N.A.

15. Regulatory information

Safety, health and environmental regulations specific for the product in question.

This Safety Data Sheet has been prepared according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Seventh revised edition.

International Inventories:

The substances are listed or exempted from registration in the following international inventories:

N.A.

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

16. Other information

This document was prepared by a competent person who has received appropriate training. Classification complies with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS Ed.7) and is consistent with ERMA New Zealand Approval number (HSNO) which is reported in Section 15.

Full text of phrases referred to in Section 3:

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H226 Flammable liquid and vapour.
- H303 May be harmful if swallowed.
- H313 May be harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H401 Toxic to aquatic life.
- H360 May damage fertility or the unborn child.
- H402 Harmful to aquatic life.

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
- CCNL - Appendix 1
- Insert further consulted bibliography

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re-transmission of this document, in full or in part, must be limited to clearly identified individuals, either because they use the product, or to provide HSE information. Any communication of this document outside of this framework without our written consent is strictly forbidden.

SOCOMORE strongly advises every recipient of this safety data sheet to read it carefully and to consult experts in the field if necessary or appropriate, in order to understand the information it contains, notably the possible dangers associated with this product. The users must ensure the conformity and completeness of this information with regards to their specific use of the product.

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 responsibility of the purchaser/user to ensure that their activities conform with current legislation in force.

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.
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.

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