

Safety Data Sheet

M331/M201 AEROSOL - P70011A

Safety Data Sheet dated 9/17/2018, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: M331/M201 AEROSOL

Other means of identification:

SDS code: P70011A

Recommended use of the chemical and restrictions on use

Recommended use:

Paint/Coating

Industrial uses

Restrictions on use:

No uses advised against are identified.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

Dysol Inc. - 791 Westport Parkway - Fort Worth, TX 76177 / Phone: 1-817-335-1826 /
csr-na@socomore.com/ Fax Number: 817-335-2405

Distributor: SOCOMORE S.A.S. - Zone Industrielle du Prat - CS 23707 - 56037 VANNES
CEDEX - France - Tel : +33 (0)2 97 43 76 83 - Fax : +33 (0)2 97 54 20 26

Distributor: Socomore Ltd - 5, Coe Avenue - Loughborough - Leicestershire - LE11 4SE - UK
- Tel: +44 1509 262040 - Fax: +44 1509 262046

Distributor: Socomore Iberia - Calle Diputacio, 260 - 08007 Barcelona - Espana - Tel: +34 917
693 962 - Fax: +34 902 908 966

Distributor: MagChem Inc. 1271, rue Ampere, suite 101, Boucherville, QC, J4B 5Z5 Canada -
Tel: 1-450 641 8500 - Fax: 1-450 655 1717

Distributor: Socomore GmbH - c/o MAZARS GmbH - Theodor-Stern-Kai 1 - 60596 Frankfurt
am Main - Deutschland - Tel: +49 (0)89 20 70 28 83 - Fax: +49 (0) 89 88 91 98 16

Distributor: Socomore Trading Shangai - 355 East Kang Qiao Road - Kang Qiao Industrial
Zone - Pudong - 201315 Shangai - Tel: 862158131133 - Fax: 862158131933

Dystrybutor : SOCOMORE SPzoo - Ul. Piekna 18, 00-549 Warszawa Polska - Tel : +48 608
454 114 - Fax : +48 (22) 621 61 09

Competent person responsible for the safety data sheet:






techdirsocomore@socomore.com

Emergency phone number

CHEMTEL: 1-800-255-3924 (USA) / CANUTEC: 1-613-996-6666 (CANADA)






2. HAZARD(S) IDENTIFICATION

Classification of the chemical

-  Danger, Flam. Aerosol 1, Extremely flammable aerosol.
-  Warning, Acute Tox. 4, Harmful if swallowed.
-  Warning, Acute Tox. 4, Harmful if inhaled.
-  Warning, Skin Irrit. 2, Causes skin irritation.
-  Warning, Eye Irrit. 2A, Causes serious eye irritation.

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-  Danger, Resp. Sens. 1, May cause allergy or asthma symptoms or breathing difficulties if inhaled.
-  Warning, Skin Sens. 1, May cause an allergic skin reaction.
-  Warning, Carc. 2, Suspected of causing cancer.
-  Warning, Repr. 2, Suspected of damaging fertility or the unborn child.
-  Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Label elements

Hazard pictograms:



Danger

Hazard statements:

- H222 Extremely flammable aerosol.
- H302 Harmful if swallowed.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H411 Toxic to aquatic life with long lasting effects.

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/sparks/open flames/hot surfaces. - No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P261 Avoid breathing vapours.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye/face protection.
- P284 [In case of inadequate ventilation] wear respiratory protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position 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.

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P330 Rinse mouth.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P363 Wash contaminated clothing before reuse.
 P391 Collect spillage.
 P405 Store locked up.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
 P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None
 Hazards not otherwise classified identified during the classification process:
 None
 Ingredient(s) with unknown acute toxicity:
 None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 15% - < 20% Oxirane, methyl-, polymer with 1,3-diisocyanatomethylbenzene, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,4-butanediyl) and oxirane (NAM)

CAS: 68132-86-5

 A.4.1/1 Resp. Sens. 1 H334

 A.4.2/1 Skin Sens. 1 H317

 A.3/2A Eye Irrit. 2A H319

>= 15% - < 20% Poly(oxy-1,4-butanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 2,4-diiso

CAS: 9050-83-3, EC: 618-571-5

 A.4.1/1 Resp. Sens. 1 H334

>= 10% - < 12.5% heptan-2-one; methyl amyl ketone

Index number: 606-024-00-3, CAS: 110-43-0, EC: 203-767-1

 B.6/3 Flam. Liq. 3 H226

 A.1/4/Oral Acute Tox. 4 H302

 A.1/4/Inhal Acute Tox. 4 H332

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>= 7% - < 10% n-butyl acetate

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

 B.6/3 Flam. Liq. 3 H226

 A.8/3 STOT SE 3 H336

>= 7% - < 10% 2-methoxy-1-methylethyl acetate

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

 B.6/3 Flam. Liq. 3 H226

>= 3% - < 5% ETHYLBENZENE

REACH No.: 01-2119489370-35, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4

 B.6/2 Flam. Liq. 2 H225

 A.1/4/Inhal Acute Tox. 4 H332

>= 3% - < 5% m-xylene

Index number: 601-022-00-9, CAS: 108-38-3, EC: 203-576-3

 B.6/3 Flam. Liq. 3 H226

 A.2/2 Skin Irrit. 2 H315

 A.1/4/Dermal Acute Tox. 4 H312

 A.1/4/Inhal Acute Tox. 4 H332

>= 3% - < 5% 1,4-Benzenediamine, N,N'-bis(1-methylhexylidene)-
CAS: 94681-93-3

 A.1/3/Oral Acute Tox. 3 H301

 A.1/4/Inhal Acute Tox. 4 H332

 A.3/2A Eye Irrit. 2A H319

 A.4.2/1 Skin Sens. 1 H317

 US-HAE/C1 Aquatic Chronic 1 H410

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>= 1% - < 3% p-xylene

Index number: 601-022-00-9, CAS: 106-42-3, EC: 203-396-5

 B.6/3 Flam. Liq. 3 H226

 A.2/2 Skin Irrit. 2 H315

 A.1/4/Dermal Acute Tox. 4 H312


 A.1/4/Inhal Acute Tox. 4 H332


>= 1% - < 3% o-xylene

Index number: 601-022-00-9, CAS: 95-47-6, EC: 202-422-2

 B.6/3 Flam. Liq. 3 H226


 A.2/2 Skin Irrit. 2 H315

 A.1/4/Dermal Acute Tox. 4 H312


 A.1/4/Inhal Acute Tox. 4 H332

>= 1% - < 3% 1-(3-methoxypropoxy)propyl acetate

CAS: 88917-22-0, EC: 618-219-0

 A.1/4/Oral Acute Tox. 4 H302

B.6/4 Flam. Liq. 4 H227

 A.2/2 Skin Irrit. 2 H315

 A.3/2A Eye Irrit. 2A H319

 A.8/3 STOT SE 3 H335

>= 1% - < 3% AMORPHOUS SILICA

CAS: 112945-52-5

 A.2/2 Skin Irrit. 2 H315





 A.3/2A Eye Irrit. 2A H319

 A.8/3 STOT SE 3 H335

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>= 0.1% - < 0.25% m-tolylidene diisocyanate; toluene-diisocyanate
 Index number: 615-006-00-4, CAS: 26471-62-5, EC: 247-722-4

-  A.6/2 Carc. 2 H351
-  A.3/2A Eye Irrit. 2A H319
-  A.8/3 STOT SE 3 H335
-  A.2/2 Skin Irrit. 2 H315
-  A.4.1/1 Resp. Sens. 1 H334
-  A.4.2/1 Skin Sens. 1 H317





US-HAE/C3 Aquatic Chronic 3 H412

-  A.1/2/Inhal Acute Tox. 2 H330

>= 0.1% - < 0.25% p-phenylenediamine
 Index number: 612-028-00-6, CAS: 106-50-3, EC: 203-404-7

-  A.3/2A Eye Irrit. 2A H319
-  A.4.2/1 Skin Sens. 1 H317
-  US-HAE/A1 Aquatic Acute 1 H400
-  US-HAE/C1 Aquatic Chronic 1 H410
-  A.1/3/Oral Acute Tox. 3 H301
-  A.1/3/Dermal Acute Tox. 3 H311
-  A.1/3/Inhal Acute Tox. 3 H331

>= 0.1% - < 0.25% toluene
 REACH No.: 01-2119471310-51, Index number: 601-021-00-3, CAS: 108-88-3, EC:
 203-625-9

-  B.6/2 Flam. Liq. 2 H225
-  A.7/2 Repr. 2 H361
-  A.10/1 Asp. Tox. 1 H304
-  A.9/2 STOT RE 2 H373

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 A.2/2 Skin Irrit. 2 H315

 A.8/3 STOT SE 3 H336

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

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 induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

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

Most important symptoms/effects, acute and delayed

None

Indication of 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:

No particular treatment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: yes

Oxidizing properties: N.A.

Special protective equipment and precautions 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

Wear personal protection equipment.

Remove all sources of ignition.

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

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Provide adequate ventilation.
Remove persons to safety.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.
Methods and materials 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.
Do not use on extensive surface areas in premises where there are occupants.
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.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
See section 10.5
Instructions as regards storage premises:
Cool and adequately ventilated.
Storage temperature:
Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

heptan-2-one; methyl amyl ketone - CAS: 110-43-0

- OEL Type: EU - TWA(8h): 238 mg/m³, 50 ppm - STEL: 475 mg/m³, 100 ppm -

Notes: Skin

- OEL Type: ACGIH - TWA(8h): 50 ppm - Notes: Eye and skin irr

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

- OEL Type: National - TWA: 710 mg/m³, 150 ppm - STEL: 940 mg/m³, 200 ppm -

Notes: France

- OEL Type: National - TWA: 150 ppm - STEL: 200 ppm - Notes: United Kingdom

- OEL Type: TWA - TWA(8h): 950 mg/m³, 200 ppm - Notes: Germany

- OEL Type: ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr

- OEL Type: National - TWA(8h): 723 mg/m³, 150 ppm - STEL: 964 mg/m³, 200 ppm -

Notes: BELGIQUE

- OEL Type: National - TWA(8h): 480 mg/m³, 99 ppm - Notes: PAYS-BAS

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 -

Notes: France VLEC

- OEL Type: National - TWA(8h): 270 mg/m³, 50 ppm - Notes: GERMANY- 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

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- OEL Type: EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin
- OEL Type: AIHA
- TWA: 50 ppm
- ETHYLBENZENE - CAS: 100-41-4
 - OEL Type: National - TWA(8h): 88.4 mg/m³, 20 ppm - Notes: Germany - EU, H
 - OEL Type: National - TWA(8h): 88.4 mg/m³, 20 ppm - STEL: 442 mg/m³, 100 ppm - Notes: France VLEC - TMP N 84
 - OEL Type: National - TWA(8h): 441 mg/m³, 100 ppm - STEL: 552 mg/m³, 125 ppm - Notes: UK (WELs)
 - OEL Type: EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin
 - OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair
 - OEL Type: National - STEL: 220 mg/m³ - Notes: Swiss
- m-xylene - CAS: 108-38-3
 - OEL Type: EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin
 - OEL Type: ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
- p-xylene - CAS: 106-42-3
 - OEL Type: EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin
 - OEL Type: ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
- o-xylene - CAS: 95-47-6
 - OEL Type: EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin
 - OEL Type: ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
- p-phenylenediamine - CAS: 106-50-3
 - OEL Type: ACGIH - TWA(8h): 0.1 mg/m³ - Notes: A4 - URT irr, skin sens
- toluene - CAS: 108-88-3
 - OEL Type: National - TWA(8h): 190 mg/m³ - Notes: Germany - DFG, H, Y
 - OEL Type: National - TWA(8h): 76.8 mg/m³, 20 ppm - STEL: 384 mg/m³, 100 ppm - Notes: France VLEC - TMP N 4bis, 84
 - OEL Type: National - TWA: 191 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notes: UK (WELs)
 - OEL Type: EU - TWA(8h): 192 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notes: Skin
 - OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss
- DNEL Exposure Limit Values
 - heptan-2-one; methyl amyl ketone - CAS: 110-43-0
 - Worker Professional: 394.25 - Consumer: 84.31 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 - Worker Professional: 1516 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
 - Worker Professional: 54.27 - Consumer: 23.32 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 - Consumer: 23.32 - Exposure: Human Oral - Frequency: Long Term, systemic effects
 - n-butyl acetate - CAS: 123-86-4
 - Worker Professional: 11 mg/kg bw/day - Consumer: 6 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

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Worker Professional: 300 mg/m³ - Consumer: 35.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Consumer: 2 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
 Worker Professional: 600 mg/m³ - Consumer: 300 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
 Worker Professional: 11 mg/kg bw/day - Consumer: 2 mg/kg bw/day - Exposure: Human Oral - Frequency: Short Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 Worker Industry: 153.5 mg/kg bw/day - Consumer: 54.8 mg/kg bw/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: 1.67 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

ETHYLBENZENE - CAS: 100-41-4
 Worker Industry: 77 mg/m³ - Consumer: 15 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
 Worker Industry: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Industry: 293 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

p-phenylenediamine - CAS: 106-50-3
 Worker Professional: 0.23 mg/m³ - Consumer: 0.06 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 Worker Professional: 0.32 mg/kg bw/day - Consumer: 0.16 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 Worker Professional: 0.06 mg/cm - Consumer: 0.03 mg/cm - Exposure: Human Dermal - Frequency: Short Term, local effects
 Consumer: 0.16 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

toluene - CAS: 108-88-3
 Worker Professional: 384 mg/m³
 Worker Professional: 192 mg/m³
 Worker Professional: 180 mg/m³

PNEC Exposure Limit Values

heptan-2-one; methyl amyl ketone - CAS: 110-43-0
 Target: Fresh Water - Value: 0.098 mg/l
 Target: Marine water - Value: 0.01 mg/l
 Target: PNEC01 - Value: 0.982 mg/l
 Target: Soil (agricultural) - Value: 0.321 mg/l
 Target: Microorganisms in sewage treatments - Value: 12.5 mg/l
 Target: Freshwater sediments - Value: 1.89 mg/kg dw
 Target: Marine water sediments - Value: 0.189 mg/kg dw

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: Marine water sediments - Value: 0.0981 mg/kg
 Target: Soil (agricultural) - Value: 0.0903 mg/kg
 Target: Microorganisms in sewage treatments - Value: 35.6 mg/l

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 Target: Fresh Water - Value: 0.635 mg/l

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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
 Target: Marine water sediments - Value: 0.329 mg/kg
 Target: Soil (agricultural) - Value: 0.29 mg/kg
 Target: PNEC intermittent - Value: 6.35 mg/l

ETHYLBENZENE - CAS: 100-41-4

Target: Marine water - Value: 0.01 mg/l - Notes:: factor assessment : 10
 Target: Marine water - Value: 0.1 mg/l - Notes:: factor assessment : 18
 Target: PNEC predator - Value: 2.68 mg/kg - Notes:: ECHA

p-phenylenediamine - CAS: 106-50-3

Target: Fresh Water - Value: 0.001 mg/l
 Target: PNEC01 - Value: 0.003 mg/l
 Target: Freshwater sediments - Value: 0.002 mg/kg dw
 Target: Microorganisms in sewage treatments - Value: 0.334 mg/l

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Safety goggles (EN 166)

Protection for skin:

Chemical protection clothing. (type 4 - EN14605)

Protection for hands:

Suitable gloves type: NF EN374

NBR (nitrile rubber).

PVA (Polyvinyl alcohol).

Respiratory protection:

Filtering Half-face mask (NF EN 149), class FFP1

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

Filtering device (NF EN 143): P1, white

Thermal Hazards:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes
Appearance and colour:	BLACK LIQUID	--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	<= 35°C	--	--
Flash Point (°F):	-42°F	--	--
Flash point (°C):	N.A.	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--

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Relative density:	0.96	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	>201°C	--	40% Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
60% not dangerous substances			
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	yes	--	may form explosive mixtures with air (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics)
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

None

Conditions to avoid

Stable under normal conditions.

Incompatible materials

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

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

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

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit = 14112 MGKGBWDAY

Test: LD50 - Route: Oral - Species: Rat = 10760 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

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Test: LC0 - Route: Inhalation - Species: Rat = 23.4 mg/l - Duration: 4h - Source: OECD 403, in vivo, aerosol

g) reproductive toxicity:

Test: NOAEC - Species: Rat = 3615 mg/m³

Test: LOAEC - Species: Rat = 7230 mg/m³ - Source: OECD

i) STOT-repeated exposure:

Test: NOAEL - Species: Rat = 500 ppm

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

a) acute toxicity:

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

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

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

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

ETHYLBENZENE - CAS: 100-41-4

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit = 4100 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg

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

Test: LCLO - Route: Inhalation - Species: Rat = 4000 ppm - Duration: 4h

1-(3-methoxypropoxy)propyl acetate - CAS: 88917-22-0

a) acute toxicity:

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

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

toluene - CAS: 108-88-3

a) acute toxicity:

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

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

Substance(s) listed on the NTP report on Carcinogens:

m-tolylidene diisocyanate; toluene-diisocyanate
toluene.

Substance(s) listed on the IARC Monographs:

ETHYLBENZENE - Group 2B

m-tolylidene diisocyanate; toluene-diisocyanate - Group 2B

p-phenylenediamine - Group 3

toluene - Group 3.

Substance(s) listed as OSHA Carcinogen(s):

toluene.

Substance(s) listed as NIOSH Carcinogen(s):

toluene.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

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

a) Aquatic acute toxicity:

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

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

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: bacteria = 356 mg/l - Duration h: 40 - Notes: Tetrahymena pyriformis

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- b) Aquatic chronic toxicity:
 - Endpoint: NOEC - Species: Daphnia = 23 mg/l - Duration h: 504
 - Endpoint: IC50 - Species: bacteria = 356 mg/l - Duration h: 40 - Notes: Tetrahymena pyriformis
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- a) Aquatic acute toxicity:
 - Endpoint: EC50 - Species: Algae > 1000 mg/l
 - Endpoint: LC50 - Species: Fish = 134 mg/l
 - Endpoint: EC50 - Species: Daphnia = 408 mg/l
- b) Aquatic chronic toxicity:
 - Endpoint: NOEC - Species: Fish = 47.5 mg/l - Duration h: 336 - Notes: Oryzias latipes
 - Endpoint: NOEC - Species: Daphnia > 100 mg/l - Duration h: 504
- ETHYLBENZENE - CAS: 100-41-4
- a) Aquatic acute toxicity:
 - Endpoint: EC50 - Species: Daphnia > 1.37 mg/l - Duration h: 48
 - Endpoint: EC50 - Species: Daphnia < 4.4 mg/l - Duration h: 48
 - Endpoint: LC50 - Species: Fish = 4.2 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss
- b) Aquatic chronic toxicity:
 - Endpoint: NOEC - Species: Fish > 1 mg/l
- 1-(3-methoxypropoxy)propyl acetate - CAS: 88917-22-0
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
 - Endpoint: LC50 - Species: Daphnia > 2701 mg/l - Duration h: 48
 - Endpoint: LC50 - Species: Algae > 1000 mg/l - Duration h: 72
- toluene - CAS: 108-88-3
- a) Aquatic acute toxicity:
 - Endpoint: LL50
 - Species: Fish > 1 mg/l - Notes: LL/EL/IL50
 - Endpoint: LL50
 - Species: Daphnia > 1 mg/l - Notes: LL/EL/IL50
 - Endpoint: LL50
 - Species: Algae > 1 mg/l - Notes: LL/EL/IL50
- b) Aquatic chronic toxicity:
 - Endpoint: NOEC - Species: Fish > 1 mg/l
- c) Bacteria toxicity:
 - Endpoint: LL50
 - Species: bacteria > 100 mg/l - Notes: LL/EL/IL50
- Persistence and degradability
 - n-butyl acetate - CAS: 123-86-4
 - Biodegradability: Biodegradability rate - Test: N.A. - Duration: 28 days - %: 83 - Notes: N.A.
- Bioaccumulative potential
 - n-butyl acetate - CAS: 123-86-4
 - BCF - Test: N.A. 15.3 - Duration: N.A. - Notes: N.A.
 - Log Kow - Test: N.A. 2.3 - Duration: N.A. - Notes: 25°C
 - ETHYLBENZENE - CAS: 100-41-4
 - Log Kow - Test: N.A. 3.15 - Duration: N.A. - Notes: N.A.
- Mobility in soil
 - n-butyl acetate - CAS: 123-86-4
 - Log Koc - Test: N.A. 1.268 - Duration: N.A. - Notes: N.A.
 - Volality (H: Henry's Law Constant) - Test: N.A. 28.5 Pa.m³/mol - Duration: N.A. - Notes: 25°C
- Other adverse effects
 - Deutschland: WGK 2 (VwVwS vom 27/07/2005, KBws) : Wassergefährdend.

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13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal 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.

14. TRANSPORT INFORMATION



UN number

ADR-UN Number: 1950
 DOT number: UN1950
 IATA-UN Number: 1950
 IMDG-UN Number: 1950

UN proper shipping name

ADR-Shipping Name: AEROSOLS, flammable
 DOT-Shipping Name: AEROSOLS, flammable
 IATA-Shipping Name: AEROSOLS, flammable
 IMDG-Shipping Name: AEROSOLS, flammable

Transport hazard class(es)

ADR-Class: 2
 DOT Hazard Class: 2.1
 ADR - Hazard identification number: -
 IATA-Class: 2.1
 IMDG-Class: 2.1
 IMDG-Class: 2

Packing group

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

Environmental hazards

ADR-Environmental Pollutant: Yes
 IMDG-Marine pollutant: Marine Pollutant

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

N.A.

Special precautions

DOT Special provisions: N82
 DOT Labels: 2.1
 ADR-Subsidiary risks: See SP63
 ADR-S.P.: 190 327 344 625
 ADR-Transport category (Tunnel restriction code): 2 (D)
 IATA-Passenger Aircraft: 203
 IATA-Subsidiary risks: See SP63
 IATA-Cargo Aircraft: 203
 IATA-S.P.: A145 A167 A802
 IATA-ERG: 10L
 IMDG-EmS: F-D , S-U

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IMDG-Subsidiary risks: See SP63
 IMDG-Stowage and handling: SW1 SW22
 IMDG-Segregation: SG69
 Q.L.: 1L
 Q.E.: E0

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

List of substances included in the TSCA inventory: heptan-2-one; methyl amyl ketone, n-butyl acetate, 2-methoxy-1-methylethyl acetate, ETHYLBENZENE, m-xylene, p-xylene, o-xylene, m-tolylidene diisocyanate; toluene-diisocyanate, p-phenylenediamine, toluene.

List of substances not included in the TSCA inventory: Oxirane, methyl-, polymer with 1,3-diisocyanatomethylbenzene, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,4-butanediyl) and oxirane (NAM), Poly(oxy-1,4-butanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 2,4-diiso, 1,4-Benzenediamine, N,N'-bis(1-methylhexylidene)-, 1-(3-methoxypropoxy)propyl acetate, AMORPHOUS SILICA.

TSCA listed substances:

heptan-2-one; methyl amyl ketone is listed in TSCA Section 8b

n-butyl acetate is listed in TSCA Section 8b

2-methoxy-1-methylethyl acetate is listed in TSCA Section 8a - PAIR, Section 8b, Section 8d HSDR

ETHYLBENZENE is listed in TSCA Section 4 Test, Section 8b, Section 8d HSDR

m-xylene is listed in TSCA Section 8b, Section 8d HSDR

p-xylene is listed in TSCA Section 8a - PAIR, Section 8b, Section 8d HSDR

o-xylene is listed in TSCA Section 8b, Section 8d HSDR

m-tolylidene diisocyanate; toluene-diisocyanate is listed in TSCA Section 12b, Section 8b, Section 8d HSDR, Section 8a - CAIR

p-phenylenediamine is listed in TSCA Section 8b, Section 8d HSDR

toluene is listed in TSCA Section 8b, Section 8d HSDR, Section 8a - CAIR.

SARA - Superfund Amendments and Reauthorization Act

Section 302 ? Extremely Hazardous Substances: no substances listed.

Section 304 ? Hazardous substances: n-butyl acetate, ETHYLBENZENE, m-xylene, p-xylene, o-xylene, m-tolylidene diisocyanate; toluene-diisocyanate, p-phenylenediamine, toluene.

Section 313 ? Toxic chemical list: ETHYLBENZENE, m-xylene, p-xylene, o-xylene, m-tolylidene diisocyanate; toluene-diisocyanate, p-phenylenediamine, toluene.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: n-butyl acetate - Reportable quantity: 5000 pounds

ETHYLBENZENE - Reportable quantity: 1000 pounds

m-xylene - Reportable quantity: 1000 pounds

p-xylene - Reportable quantity: 100 pounds

o-xylene - Reportable quantity: 1000 pounds

m-tolylidene diisocyanate; toluene-diisocyanate - Reportable quantity: 100 pounds

p-phenylenediamine - Reportable quantity: 5000 pounds

toluene - Reportable quantity: 1000 pounds.

Reportable quantity for mixture: 5211.509097 pounds.

CAA - Clean Air Act

CAA listed substances:

n-butyl acetate is listed in CAA Section 111

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ETHYLBENZENE is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

m-xylene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

p-xylene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

o-xylene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON

m-tolylidene diisocyanate; toluene-diisocyanate is listed in CAA Section 111, Section 112(b) - HON, Section 112(r)

p-phenylenediamine is listed in CAA Section 112(b) - HAP, Section 112(b) - HON

toluene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON.

CWA - Clean Water Act

CWA listed substances:

n-butyl acetate is listed in CWA Section 304, Section 311

ETHYLBENZENE is listed in CWA Section 304, Section 307, Section 311, CWA Priority Pollutants

m-xylene is listed in CWA Section 311

p-xylene is listed in CWA Section 311

o-xylene is listed in CWA Section 311

toluene is listed in CWA Section 304, Section 307, Section 311, CWA Priority Pollutants.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

ETHYLBENZENE - Listed as carcinogen

m-tolylidene diisocyanate; toluene-diisocyanate - Listed as carcinogen

toluene - Listed as reproductive toxicant.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

heptan-2-one; methyl amyl ketone

n-butyl acetate

ETHYLBENZENE

m-xylene

p-xylene

o-xylene

m-tolylidene diisocyanate; toluene-diisocyanate

p-phenylenediamine

toluene.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

heptan-2-one; methyl amyl ketone

n-butyl acetate

ETHYLBENZENE

m-xylene

p-xylene

o-xylene

m-tolylidene diisocyanate; toluene-diisocyanate

p-phenylenediamine

toluene.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

heptan-2-one; methyl amyl ketone

n-butyl acetate

ETHYLBENZENE

m-xylene

p-xylene

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o-xylene
m-tolylidene diisocyanate; toluene-diisocyanate
p-phenylenediamine
toluene.

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:

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2%
AROMATICIS (CAS: 64742-48-9)

HYDROCARBONS, C9-C12, N-ALKANES, ISOALKANES, AROMATICS (2-25%)
(64742-82-1)

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H312 Harmful in contact with skin.

H301 Toxic if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

H227 Combustible liquid.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

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Disclaimer:

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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
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.
GHS: Globally Harmonized System of Classification and Labeling of

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	Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
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.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
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