



Diesel Air Intake Cleaner

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 04.10.2023 Revision date: 02.10.2023 Version: 5.00

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

1.1. Product identifier

Product form : Mixture
Product name : Diesel Air Intake Cleaner
Product code : W11395
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Automotive Care Products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

ITW ADDITIVES INTL B.V.
Industriepark-West 46
9100 Sint-Niklaas
BELGIUM
T +32 3 766 60 20 - F +32 3 778 16 56
msds@wynns.eu - www.wynns.com

Distributor

ITW Automotive Aftermarket
Saxon House, 2-4 Victoria Street, Windsor
SL4 1EN
UK
T +44 (0)24 7647 4069
sales@forteuk.co.uk - www.forteuk.co.uk

Distributor

Krafft S.L.U.
Carretera de Urnieta, s/n
20140 Andoain - Guipúzcoa
ESPAÑA
T +34 943 410 400 - F +34 943 410 440
msds@krafft.es - www.krafft.es

Distributor

Wynn's Automotive France S.A.S.
2 Av. Léonard de Vinci Z.A. Europarc
33600 PESSAC Cedex
FRANCE
T +33 5 57 26 29 00
contact@wynns.fr - www.wynns.fr

1.4. Emergency telephone number

Emergency number : BIG: +32(0)14 58 45 45 (NL FR EN DE)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

- : Danger
- : n-Butylpyrrolidone; C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine); C8-C26 branched and linear hydrocarbons – Distillates; Hydrocarbons, C10, aromatics, <1% naphthalene
- : H302 - Harmful if swallowed.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.
- : P102 - Keep out of reach of children.
P405 - Store locked up.
P261 - Avoid breathing vapours.
P280 - Wear protective gloves, eye protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 - Do NOT induce vomiting.
P273 - Avoid release to the environment.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C10, aromatics, <1% naphthalene	EC-No.: 918-811-1 REACH-no: 01-2119463583-34	≥ 50	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066
n-Butylpyrrolidone	CAS-No.: 3470-98-2 EC-No.: 222-437-8 REACH-no: 01-2120062728-48	10 – 25	Acute Tox. 4 (Oral), H302 (ATE=301 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319
C8-C26 branched and linear hydrocarbons – Distillates	CAS-No.: 848301-67-7 EC-No.: 481-740-5 REACH-no: 01-0000020119-75	10 – 25	Asp. Tox. 1, H304 EUH066

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-(2-butoxyethoxy)ethanol substance with a Community workplace exposure limit	CAS-No.: 112-34-5 EC-No.: 203-961-6 EC Index-No.: 603-096-00-8 REACH-no: 01-2119475104-44	10 – 25	Eye Irrit. 2, H319
Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl)	CAS-No.: 68603-38-3 EC-No.: 271-653-9 REACH-no: 01-2119951823-33	2,5 – 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine)	CAS-No.: 1213789-63-9 EC-No.: 627-034-4 REACH-no: 01-2119473797-19	1 – 2,5	Acute Tox. 4 (Oral), H302 (ATE=1689 mg/kg bodyweight) Skin Corr. 1B, H314 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
polyetheramine	CAS-No.: 224622-34-8	1 – 2,5	Skin Irrit. 2, H315 Aquatic Chronic 3, H412
2,2'-iminodiethanol	CAS-No.: 111-42-2 EC-No.: 203-868-0 EC Index-No.: 603-071-00-1 REACH-no: 01-2119488930-28	0,1 – 1	Acute Tox. 4 (Oral), H302 (ATE=1600 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361fd STOT RE 2, H373

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Check the vital functions. Keep victim at rest in half upright position. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Keep watching the victim. Give psychological aid. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid physical strain. If necessary seek medical advice.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If irritation persists, consult a doctor.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: May cause severe irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

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

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. AFFF foam. ABC-powder.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.
Explosion hazard : Product is not explosive.

5.3. Advice for firefighters

Firefighting instructions : Prevent fire fighting water from entering the environment. Contain the extinguishing fluids by bunding.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves and eye/face protection. protective clothing. Large spills/in enclosed spaces: compressed air apparatus.
Emergency procedures : Mark the danger area. Keep upwind. Prevent flow to low areas. Take off contaminated clothing.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Contain leaking substance, pump over in suitable containers.
Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean preferably with a detergent - Avoid the use of solvents.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Meet the legal requirements. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Presents no particular risk when handled in accordance with good occupational hygiene practice.
Hygiene measures : Use good personal hygiene practices. IF ON SKIN: Gently wash with plenty of soap and water. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.
Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.
Storage temperature : < 40 °C
Storage area : Store in a well-ventilated place. Meet the legal requirements.
Special rules on packaging : Meet the legal requirements. Labelling according to.

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7.3. Specific end use(s)

Read label before use. Observe the label precautions. See product bulletin for detailed information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

2,2'-iminodiethanol (111-42-2)	
Belgium - Occupational Exposure Limits	
OEL TWA	2 mg/m ³
OEL TWA [ppm]	0,46 ppm
Remark	D
2-(2-butoxyethoxy)ethanol (112-34-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	67,5 mg/m ³
IOEL TWA [ppm]	10 ppm
IOEL STEL	101,2 mg/m ³
IOEL STEL [ppm]	15 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	67,5 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	101,2 mg/m ³
OEL STEL [ppm]	15 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	101,2 mg/m ³
VME (OEL TWA) [ppm]	15 ppm
VLE (OEL C/STEL)	67,5 mg/m ³
VLE (OEL C/STEL) [ppm]	10 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	67,5 mg/m ³
CK (OEL STEL)	101,2 mg/m ³
Hydrocarbons, C10, aromatics, <1% naphthalene	
Belgium - Occupational Exposure Limits	
OEL TWA	200 mg/m ³

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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8.1.4. DNEL and PNEC

n-Butylpyrrolidone (3470-98-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	70,5 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	2,5 mg/kg bodyweight
Long-term - systemic effects, oral	2,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	17,4 mg/m ³
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,8 mg/l
PNEC aqua (marine water)	0,08 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	6,336 mg/kg dwt
PNEC sediment (marine water)	0,634 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,795 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	30,62 mg/l
2,2'-iminodiethanol (111-42-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0,13 mg/kg bodyweight/day
Long-term - local effects, inhalation	1 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,06 mg/kg bodyweight/day
Long-term - systemic effects, dermal	0,07 mg/kg bodyweight/day
Long-term - local effects, inhalation	0,25 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,0156 mg/l
PNEC aqua (marine water)	0,00156 mg/l
PNEC aqua (intermittent, freshwater)	0,097 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,0718 mg/kg dwt
PNEC sediment (marine water)	0,00718 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,00518 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	1,04 mg/kg food

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2,2'-iminodiethanol (111-42-2)	
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-38-3)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	4,16 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	73,44 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	6,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	21,73 mg/m³
Long-term - systemic effects, dermal	2,5 mg/kg bodyweight/day
PNEC (STP)	
PNEC sewage treatment plant	0,83 mg/l
C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine) (1213789-63-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0,09 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,38 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0,00026 mg/l
PNEC aqua (marine water)	0,000026 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,1794 mg/kg dwt
PNEC sediment (marine water)	0,01794 mg/kg dwt
PNEC (Soil)	
PNEC soil	10 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0,22 mg/kg food
C8-C26 branched and linear hydrocarbons – Distillates (848301-67-7)	
PNEC (Sediment)	
PNEC sediment (freshwater)	2,06 mg/kg dwt
PNEC (Soil)	
PNEC soil	1,68 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Does not require any specific or particular technical measures.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

Hand protection:

Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Breakthrough time : >30'. Thickness of the glove material >0.1 mm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless to yellow. The colour can change over time without effect on the quality of the product.
Odour	: aromatic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 66 °C (ASTM D93)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 2 mm²/s @ 40°C (ASTM D445)
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 880 kg/m³ @ 20°C (ASTM D4052)
Relative density	: Not available
Relative vapour density at 20°C	: Not available

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Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 70,18 %

Additional information : The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Combustible liquid. Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from strong acids and strong oxidizers.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On burning: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Diesel Air Intake Cleaner	
ATE CLP (oral)	1949,909 mg/kg bodyweight
n-Butylpyrrolidone (3470-98-2)	
LD50 oral rat	301 (≤ 1999) mg/kg bodyweight RccHan: WIST (SPF)
LD50 dermal rat	> 2000 mg/kg bodyweight Wistar
2,2'-iminodiethanol (111-42-2)	
LD50 oral rat	1600 mg/kg
Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-38-3)	
LD50 oral rat	> 3000 mg/kg bodyweight

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C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine) (1213789-63-9)	
LD50 oral rat	1689 mg/kg bodyweight Sprague-Dawley
C8-C26 branched and linear hydrocarbons – Distillates (848301-67-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rat	> 2000 mg/kg bodyweight Sprague-Dawley
2-(2-butoxyethoxy)ethanol (112-34-5)	
LD50 oral rat	7291 mg/kg bodyweight COBS, CD, BR
LD50 dermal rabbit	2764 mg/kg bodyweight New Zealand White
LC50 Inhalation - Rat [ppm]	> 29 ppm @2h
Hydrocarbons, C10, aromatics, <1% naphthalene	
LD50 oral rat	6318 mg/kg bodyweight Crl:CDBR
LD50 dermal rabbit	> 2000 mg/kg bodyweight New Zealand White
LC50 Inhalation - Rat	> 4,688 mg/l/4h Sprague-Dawley
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine) (1213789-63-9)	
STOT-single exposure	May cause respiratory irritation.
Hydrocarbons, C10, aromatics, <1% naphthalene	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
2,2'-iminodiethanol (111-42-2)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine) (1213789-63-9)	
STOT-repeated exposure	May cause damage to organs (digestive tract, liver, immune system) through prolonged or repeated exposure (oral).
Aspiration hazard	: May be fatal if swallowed and enters airways.
Diesel Air Intake Cleaner	
Viscosity, kinematic	2 mm ² /s @ 40°C (ASTM D445)
polyetheramine (224622-34-8)	
Aliphatic, alicyclic or aromatic hydrocarbon	Yes
n-Butylpyrrolidone (3470-98-2)	
Viscosity, kinematic	4,48 mm ² /s
C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine) (1213789-63-9)	
Viscosity, kinematic	6,064 mm ² /s
C8-C26 branched and linear hydrocarbons – Distillates (848301-67-7)	
Viscosity, kinematic	2 – 4,5 mm ² /s

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2-(2-butoxyethoxy)ethanol (112-34-5)

Viscosity, kinematic	< 6,1 mm²/s
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Hydrocarbons, C10, aromatics, <1% naphthalene

Viscosity, kinematic	< 2 mm²/s
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Aliphatic, alicyclic or aromatic hydrocarbon	Yes
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: This product contains hazardous components for the aquatic environment.
Ecology - water	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

n-Butylpyrrolidone (3470-98-2)

LC50 - Fish [1]	> 100 mg/l @96h Oncorhynchus mykiss
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna
EC50 - Other aquatic organisms [1]	> 160 mg/l @72h Pseudokirchneriella subcapitata
ErC50 algae	> 160 mg/l @72h Pseudokirchneriella subcapitata
NOEC (acute)	100 mg/l Oncorhynchus mykiss

2,2'-iminodiethanol (111-42-2)

LC50 - Fish [1]	96h 460 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	48h 30 mg/l Ceriodaphnia dubia
EC50 - Other aquatic organisms [1]	72h 9,5 mg/l pseudokirchneriella subcapitata
NOEC chronic crustacea	1,05 mg/l

Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-38-3)

LC50 - Fish [1]	96h 1,2 mg/l oncorhynchus mykiss
NOEC (acute)	72h 2 mg/l Desmodesmus subspicatus
NOEC (chronic)	> 0,01 (≤ 0,1) mg/l @21d daphnia magna

C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine) (1213789-63-9)

LC50 - Fish [1]	96h 0,06 mg/l Pimephales promelas
EC50 - Crustacea [1]	48h 0,98 mg/l Daphnia magna
EC50 - Other aquatic organisms [1]	72h 0,46 mg/l Desmodesmus subspicatus

C8-C26 branched and linear hydrocarbons – Distillates (848301-67-7)

LC50 - Fish [1]	> 1000 mg/l @96h Pimephales promelas
EC50 - Crustacea [1]	> 1000 mg/l @48h Daphnia magna
EC50 - Other aquatic organisms [1]	> 1000 mg/l @72h Pseudokirchneriella subcapitata
NOEC (acute)	> 1000 mg/l @48h Daphnia magna

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2-(2-butoxyethoxy)ethanol (112-34-5)

LC50 - Fish [1]	96h 1300 mg/l <i>Lepomis macrochirus</i>
EC50 - Crustacea [1]	24h 2850 mg/l <i>Daphnia magna</i>
EC50 - Other aquatic organisms [1]	72h 1101 mg/l <i>Pseudokirchnerella subcapitata</i>

Hydrocarbons, C10, aromatics, <1% naphthalene

LC50 - Fish [1]	96h 2 (≤ 5) mg/l <i>Oncorhynchus mykiss</i>
EC50 - Crustacea [1]	48h 3 (≤ 10) mg/l <i>Daphnia magna</i>
EC50 - Other aquatic organisms [1]	72h 1 (≤ 3) mg/l <i>Pseudokirchnerella subcapitata</i>
NOEC chronic fish	0,441 mg/l
NOEC chronic crustacea	0,771 mg/l
NOEC chronic algae	1 mg/l

12.2. Persistence and degradability

n-Butylpyrrolidone (3470-98-2)

Persistence and degradability	biodegradable.
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2,2'-iminodiethanol (111-42-2)

Persistence and degradability	Readily biodegradable.
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Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-38-3)

Persistence and degradability	biodegradable.
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C8-C26 branched and linear hydrocarbons – Distillates (848301-67-7)

Persistence and degradability	Readily biodegradable.
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Hydrocarbons, C10, aromatics, <1% naphthalene

Persistence and degradability	Readily biodegradable.
Biodegradation	50 %

12.3. Bioaccumulative potential

n-Butylpyrrolidone (3470-98-2)

Bioaccumulative potential	No bioaccumulation.
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C8-C26 branched and linear hydrocarbons – Distillates (848301-67-7)

Partition coefficient n-octanol/water (Log Pow)	> 6,5 @40°C
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2-(2-butoxyethoxy)ethanol (112-34-5)

Partition coefficient n-octanol/water (Log Pow)	1
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12.4. Mobility in soil

n-Butylpyrrolidone (3470-98-2)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	43,2
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12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations



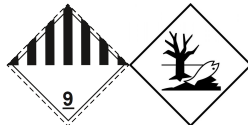
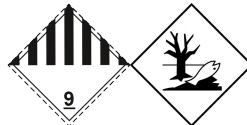
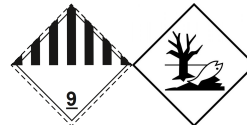
13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant. Avoid release to the environment.

European List of Waste (LoW) code : 14 06 03* - other solvents and solvent mixtures
15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10, aromatics, <1% naphthalene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10, aromatics, <1% naphthalene)	Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbons, C10, aromatics, <1% naphthalene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10, aromatics, <1% naphthalene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10, aromatics, <1% naphthalene)
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10, aromatics, <1% naphthalene), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10, aromatics, <1% naphthalene), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Hydrocarbons, C10, aromatics, <1% naphthalene), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10, aromatics, <1% naphthalene), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10, aromatics, <1% naphthalene), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				


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14.6. Special precautions for user

Overland transport

Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	: 

Tunnel restriction code (ADR)	: -
EAC code	: •3Z

Transport by sea

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L

Inland waterway transport

Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: M6
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Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : 70,18 %

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 49	Skin disorders caused by aliphatic, alicyclic amines or ethanolamines
RG 49 BIS	Respiratory disorders caused by aliphatic amines, ethanolamines or isophoronediamine
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) is listed
SZW-lijst van mutagene stoffen : Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class III-1
Store unit : 50 liter
Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

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Full text of H- and EUH-statements:	
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

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