

	UNOX S.p.A.	Revision nr. 4.0
		Revision date 15/01/2026
	SPRAY&RINSE	Replaced revision: 3.0 (16/01/2023)
		EN - English

Safety Data Sheet

According to the Work Health and Safety Regulations.

1 Identification

1.1 Product identifier

Item code	DB1044A0 DB1043A0
Product name	SPRAY&RINSE

1.2 Recommended use of the chemical and restrictions on use

Intended use	Oven cleaner; detergent for cooking surfaces.
Uses advised against	Any use other than those identified.
Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals	None
Illicit drug precursors	None
Chemical of safety concern substances	None

1.3 Details of manufacturer or importer

Company name	UNOX AUSTRALIA PTY. LTD.
Full address	7/100 New Street Ringwood, VIC. 3134
Country	Australia
Phone number	+61 3 9876 0803
Website	http://www.unox.com
e-mail address of the competent person responsible for the Safety Data Sheet	det.rinse@unox.com

1.4 Emergency telephone number

For urgent inquiries refer to	3E +61 1800 686 951 (Australia) +64 800 451719 (New Zealand) Access code: 334577 24h/7
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2 Hazard(s) identification

2.1 Classification of the hazardous chemical

The product is classified as hazardous pursuant to the provisions set forth in Work Health and Safety Regulations. The product thus requires a safety datasheet. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

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Section 2

Hazard classification

Skin irritation, category 2	H315	Causes skin irritation.
Serious eye damage, category 1	H318	Causes serious eye damage.

2.2 Label elements

Hazard labelling according to the criteria in Work Health and Safety Regulations.

Hazard pictograms



Signal word

Danger

Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.

Precautionary statements

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of water.
P280	Wear protective gloves / eye protection / face protection.
P332+P313	If skin irritation occurs: Get medical advice / attention.
P264	Wash exposed body parts thoroughly after handling.
P362+P364	Take off contaminated clothing and wash it before reuse.
P321	Specific treatment (see appropriate box on this label).
P310	Immediately call a poison center/doctor.

Contains

DIPROPYLENE GLYCOL MONOMETHYL ETHER (5 ≤ x < 10 %)
2-AMINOETHANOL (1 ≤ x < 5 %)
UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO) (1 ≤ x < 5 %)
N,N-DIMETHYL 9-DECENAMIDE (1 ≤ x < 2 %)
POLY(OXY-1,2-ETHANEDIYL), ALPHA-(CARBOXYMETHYL)-OMEGA-(OCTYLOXY)-(4-11 EO) (1 ≤ x < 2 %)

2.3 Other hazards

Environmental classification according to GHS criteria:
The product is classified as dangerous for the environment according to GHS criteria.

Environment - Hazard pictograms

None

Environment - Signal words

None

Environment - Hazard statements

H402	Harmful to aquatic life
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Section 2

Environment - Precautionary statements

P501	Dispose of contents and container in accordance with local and national regulations.
P273	Avoid release to the environment.

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

3 Composition and information on ingredients

3.1 Substances

Information not relevant

3.2 Mixtures

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Concentration	$5 \leq x < 10 \%$
CAS number	34590-94-8
Hazard classification	Flammable liquid, category 4; H227
Substance with a workplace exposure limit.	

2-AMINOETHANOL

Concentration	$1 \leq x < 5 \%$
CAS number	141-43-5
Hazard classification	- Acute toxicity, category 4 - Oral; H302 - Acute toxicity, category 4 - Dermal; H312 - Skin corrosion, category 1B; H314 - Serious eye damage, category 1; H318 - Acute toxicity, category 4 - Inhalation; H332
Substance with a workplace exposure limit.	

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)

Concentration	$1 \leq x < 5 \%$
CAS number	127036-24-2
Hazard classification	- Acute toxicity, category 4 - Oral; H302 - Serious eye damage, category 1; H318 - Hazardous to the aquatic environment, acute toxicity, category 2; H401

N,N-DIMETHYL 9-DECENAMIDE

Concentration	$1 \leq x < 2 \%$
CAS number	1356964-77-6
Hazard classification	- Acute toxicity, category 4 - Oral; H302 - Skin irritation, category 2; H315 - Eye irritation, category 2; H319 - Specific target organ toxicity - single exposure, category 3; H335 - Hazardous to the aquatic environment, acute toxicity, category 2; H401 - Hazardous to the aquatic environment, chronic toxicity, category 3; H412

POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(OCTYLOXY)-(4-11 EO)

Concentration	$1 \leq x < 2 \%$
CAS number	53563-70-5
Hazard classification	Serious eye damage, category 1; H318

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Note: Upper limit is not included into the range

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Section 4

4 First aid measures

4.1 Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuers protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

4.2 Most important symptoms and effects, both acute and delayed

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

See section 11.

4.3 Indication of any immediate medical attention and special treatment needed

If skin irritation occurs: Get medical advice / attention.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

5 Firefighting measures

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2 Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

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5.3 Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3 Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

7 Handling and storage

7.1 Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

Frequency of use: up to 5 days / week.
Duration of use: up to 60 minutes / day.
Internal use.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

8 Exposure controls and personal protection

8.1 Control parameters

Regulatory references

ACGIH	ACGIH 2025
Australia-TLV	Australian Exposure Standard Documentation
United Kingdom-WEL	EH40/2005 Workplace exposure limits (Fourth Edition 2020)

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Section 8

2-AMINOETHANOL

	TWA		STEL		CEILING		Remarks
	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	
ACGIH	7.5	3	15	6			--
Australia-TLV	7.5	3	15	6			--
United Kingdom-WEL	2.5	1	7.6	3			Skin

DIPROPYLENE GLYCOL MONOMETHYL ETHER

	TWA		STEL		CEILING		Remarks
	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	
ACGIH		50					--
Australia-TLV	308	50					Skin
United Kingdom-WEL	308	50					Skin

8.2 Exposure controls

The use of appropriate technical measures should always take priority over personal protective equipment. Provide a good level of general ventilation in the workplace (3 to 5 air changes per hour). Personal protective equipment must comply with current regulations.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Protect your hands with gloves of the following type:

Protect your hands with gloves of the following type

Material	Thickness	Breakthrough time
Butyl rubber (IIR)	0.5 mm	480 m
–	–	–
Nitrile rubber (NBR)	0.35 mm	480 m
–	–	–
Neoprene	0.5 mm	480 m
–	–	–
PVC	0.5 mm	480 m
–	–	–

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid	
Colour	straw yellow	
Odour	characteristic	
Odour threshold	Not applicable	
Melting point / freezing point	no test available	
Initial boiling point	> 100 °C (> 212 °F)	
Flammability	not applicable (liquid product).	
Lower explosive limit	Not available	Remarks: Based on our experience with this product and our knowledge of its composition, we do not expect it to present any risk of explosion, provided the product is used correctly and in accordance with its intended use.
Upper explosive limit	Not available	Remarks: Based on our experience with this product and our knowledge of its composition, we do not expect it to present any risk of explosion, provided the product is used correctly and in accordance with its intended use.
Flash point	95 °C (203 °F)	Method: ASTM D93
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
pH	10.5 ≤ x ≤ 11	Temperature: 20 °C (68 °F)
Kinematic viscosity	Not determined	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not applicable	
Vapour pressure	Not available	
Density and/or relative density	0.99 ≤ x ≤ 1.05 kg/l	Temperature: 20 °C (68 °F)
Relative vapour density	Not available	

Particle characteristics

Information not available.

9.2 Other information

9.2.1 Information with regard to physical hazards

Information not available.

9.2.2 Other safety characteristics

Information not available.

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Section 10

10 Stability and reactivity

10.1 Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical stability

The product is stable in normal conditions of use and storage.

10.3 Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

2-AMINOETHANOL

Avoid contact with acids, oxidising agents.

10.4 Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected

2-AMINOETHANOL

Avoid contact with acids, oxidising agents.

10.5 Incompatible materials

2-AMINOETHANOL

Incompatible materials: mild steel, copper, copper alloys

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)

Avoid contact with: oxidising agents, strong acids

10.6 Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

2-AMINOETHANOL

In decomposition develops: carbon oxides, nitric oxide, nitrous gases

11 Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1 Information on toxicological effects

11.1.1 Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

11.1.2 Information on likely routes of exposure

Dermal, inhalation.

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11.1.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

11.1.4 Interactive effects

Information not available.

11.1.5 ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture	> 20 mg/l
ATE (Oral) of the mixture	> 2,000 mg/kg
ATE (Dermal) of the mixture	> 2,000 mg/kg

2-AMINOETHANOL

LD50 (Oral):	> 1,510 mg/kg	Species/guidelines: rat
LD50 (Dermal):	> 1,025 mg/kg	Species/guidelines: rabbit
LC50 (Inhalation vapours):	> 1.3 mg/l	Exposure duration: 4 hours Species/guidelines: rat
ATE (Inhalation - vapours)	11 mg/l	estimate from table 3.1.2 of GHS (figure used for calculation of the acute toxicity estimate of the mixture)

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LD50 (Oral):	5,660 mg/kg	Species/guidelines: rat
LD50 (Dermal):	9,500 mg/kg	Species/guidelines: rabbit

POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(OCTYLOXY)-(4-11 EO)

LD50 (Oral):	> 2,000 mg/kg	Species/guidelines: rat
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N,N-DIMETHYL 9-DECENAMIDE

LD50 (Oral):	550 mg/kg	Species/guidelines: rat
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UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)

LD50 (Oral):	> 300 mg/kg	Species/guidelines: rat
LD50 (Dermal):	> 2,000 mg/kg	Species/guidelines: rabbit

11.1.6 SKIN CORROSION/IRRITATION

Causes skin irritation.

11.1.7 SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage.

11.1.8 RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

11.1.9 GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

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11.1.10 CARCINOGENICITY

Does not meet the classification criteria for this hazard class

11.1.11 REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

11.1.12 STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

11.1.13 STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

11.1.14 ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2 Information on other hazards

Based on the available data, the product does not contain substances that are potential or suspected endocrine disruptors with human health effects.

12 Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1 Toxicity

2-AMINOETHANOL

EC50 - for Crustacea	> 27.04 mg/l	Exposure duration: 48 hours Species/guidelines: Daphnia magna (OECD 201. part 1 static).
LC50 - for Fish	> 349 mg/l	Exposure duration: 96 hours
EC50 - for Algae / Aquatic Plants	2.8 mg/l	Exposure duration: 72 hours Species/guidelines: Selenastrum capricornutum (OECD 201).
Chronic NOEC for Fish	1.2 mg/l	Species/guidelines: Oryzias latipes (OECD 210).
Chronic NOEC for Crustacea	0.85 mg/l	Species/guidelines: Daphnia magna (OECD 211).
Chronic NOEC for Algae / Aquatic Plants	> 2.5 mg/l	

DIPROPYLENE GLYCOL MONOMETHYL ETHER

EC50 - for Crustacea	1,919 mg/l	Exposure duration: 48 hours Species/guidelines: Daphnia magna
LC50 - for Fish	> 10,000 mg/l	Exposure duration: 96 hours Species/guidelines: Pesce
EC50 - for Algae / Aquatic Plants	> 969 mg/l	Exposure duration: 72 hours Species/guidelines: Alga

POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(OCTYLOXY)-(4-11 EO)

EC50 - for Crustacea	> 100 mg/l	Exposure duration: 48 hours Species/guidelines: OECD 202. Daphnia sp. Acute Immobilization Test and Reproduction Test.
LC50 - for Fish	> 100 mg/l	Exposure duration: 96 hours Species/guidelines: OECD 203. Fish, Acute Toxicity Test.

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EC50 - for Algae / Aquatic Plants	> 100 mg/l	Exposure duration: 72 hours Species/guidelines: OECD 201. Alga, Growth Inhibition Test.
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N,N-DIMETHYL 9-DECENAMIDE

EC50 - for Crustacea	2.8 mg/l	Exposure duration: 48 hours Species/guidelines: daphnia
LC50 - for Fish	> 7.5 mg/l	Exposure duration: 96 hours
Chronic NOEC for Crustacea	0.28 mg/l	Species/guidelines: daphnia
Chronic NOEC for Algae / Aquatic Plants	1.1 mg/l	

UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)

EC10 for Algae / Aquatic Plants	> 1 mg/l	Exposure duration: 72 hours Species/guidelines: (OECD TG 201)
EC50 - for Crustacea	> 10 mg/l	Exposure duration: 48 hours Species/guidelines: Daphnia magna (OECD TG 202)
LC50 - for Fish	> 10 mg/l	Exposure duration: 96 hours Species/guidelines: Cyprinus carpio (OECD TG 203)
Chronic NOEC for Fish	> 1 mg/l	
Chronic NOEC for Crustacea	> 1 mg/l	Species/guidelines: Daphnia magna

12.2 Persistence and degradability

2-AMINOETHANOL

Solubility in water	1,000 ≤ x ≤ 10,000 mg/l	
Degradability	Rapidly degradable	

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Solubility in water	1,000 ≤ x ≤ 10,000 mg/l	
Degradability	Rapidly degradable	

POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-(CARBOXYMETHYL)-.OMEGA.-(OCTYLOXY)-(4-11 EO)

Degradability	Rapidly degradable	
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N,N-DIMETHYL 9-DECENAMIDE

Degradability	Rapidly degradable	
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UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)

Degradability	Rapidly degradable	
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12.3 Bioaccumulative potential

2-AMINOETHANOL

Partition coefficient n-octanol/water	-2.3 LogKow	
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DIPROPYLENE GLYCOL MONOMETHYL ETHER

Partition coefficient n-octanol/water	0.004 LogKow	
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N,N-DIMETHYL 9-DECENAMIDE

Partition coefficient n-octanol/water	3.17 LogKow	
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12.4 Mobility in soil

2-AMINOETHANOL

Partition coefficient soil/water	-0.565 LogKoc	
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UNDECANOL, BRANCHED AND LINEAR, ETHOXYLATED (> = 2.5 EO)

Partition coefficient soil/water	> 3.6 LogKoc	
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12.5 Other adverse effects

12.5.0.1 Endocrine disrupting properties

Based on the available data, the product does not contain substances that are potential or suspected endocrine disruptors with environmental effects.

13 Disposal considerations

13.1 Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14 Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

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

Not applicable

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Section 15

15 Regulatory information

15.1 Safety, health and environmental regulations

Ozone-Depleting Substances

None

International Regulations

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Regulation (EU) 2019/1021 - on persistent organic pollutants

None

Basel Convention

Not applicable

16 Any other relevant information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. Dermal 4	Acute toxicity, category 4 - Dermal
Acute Tox. Inhalation 4	Acute toxicity, category 4 - Inhalation
Acute Tox. Oral 4	Acute toxicity, category 4 - Oral
Aquatic Acute 2	Hazardous to the aquatic environment, acute toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Flam. Liq. 4	Flammable liquid, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H227	Combustible liquid
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects.

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Key abbreviations or acronyms used

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Effective concentration (required to induce a 50% effect)
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile.

General Bibliography

- WHS Regulations
- GHS rev. 7
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy
- Hazardous Chemical Information System (HCIS)

Note for users

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Calculation methods for classification

Product classification derives from criteria established by the GHS, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

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1	Identification of the substance/mixture and of the company/undertaking
1.2	Relevant identified uses of the substance or mixture and uses advised against
2	Hazards identification
2.1	Classification of the substance or mixture
2.2	Label elements
2.3	Other hazards
3	Composition/information on ingredients
3.2	Mixtures
4	First aid measures
4.1	Description of first aid measures
4.2	Most important symptoms and effects, both acute and delayed
4.3	Indication of any immediate medical attention and special treatment needed
5	Firefighting measures
5.1	Extinguishing media
5.2	Special hazards arising from the substance or mixture
5.3	Advice for firefighters
6	Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures
6.2	Environmental precautions
6.3	Methods and material for containment and cleaning up
7	Handling and storage
7.1	Precautions for safe handling
7.2	Conditions for safe storage, including any incompatibilities
8	Exposure controls/personal protection
8.1	Control parameters
8.2	Exposure controls
9	Physical and chemical properties
9.1	Information on basic physical and chemical properties
9.2	Other information
	Other safety characteristics
10	Stability and reactivity
10.1	Reactivity
10.2	Chemical stability
10.3	Possibility of hazardous reactions
10.4	Conditions to avoid
10.5	Incompatible materials
10.6	Hazardous decomposition products
11	Toxicological information
11.1	Information on toxicological effects
	Metabolism, toxicokinetics, mechanism of action and other information
	Information on likely routes of exposure
	Delayed and immediate effects as well as chronic effects from short and long-term exposure
	Interactive effects
	ACUTE TOXICITY
	SKIN CORROSION/IRRITATION

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	SERIOUS EYE DAMAGE / IRRITATION
	RESPIRATORY OR SKIN SENSITISATION
	GERM CELL MUTAGENICITY
	CARCINOGENICITY
	REPRODUCTIVE TOXICITY
	STOT - SINGLE EXPOSURE
	STOT - REPEATED EXPOSURE
	ASPIRATION HAZARD
11.2	Information on other hazards
12	Ecological information
12.1	Toxicity
12.2	Persistence and degradability
12.3	Bioaccumulative potential
12.4	Mobility in soil
12.5	Other adverse effects
13	Disposal considerations
13.1	Waste treatment methods
15	Regulatory information
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture