



SAFETY DATA SHEET

3-AMINOPROPYLDIMETHYLAMINE

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

1.1. Product identifier

Product name	3-AMINOPROPYLDIMETHYLAMINE
Product number	23302
Synonyms; trade names	3-(DIMETHYLAMINO)PROPYLAMINE
REACH registration number	01-2119486842-27-XXXX
CAS number	109-55-7
EU index number	612-061-00-6
EC number	203-680-9

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

Identified uses	Industrial application
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1.3. Details of the supplier of the safety data sheet

Supplier	Univar Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 sds@univar.com +44 1274 267306
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1.4. Emergency telephone number

Emergency telephone	SGS - +32 (0)3 575 55 55 (24h)
Sds No.	23302

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 3 - H226
Health hazards	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards	Not Classified

Classification (67/548/EEC or 1999/45/EC) Xn;R20/21/22. C;R34. R10,R43.

2.2. Label elements

3-AMINOPROPYLDIMETHYLAMINE

EC number 203-680-9

Pictogram



Signal word Danger

Hazard statements

H226 Flammable liquid and vapour.
 H302+H312 Harmful if swallowed or in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P240 Ground/ bond container and receiving equipment.
 P241 Use explosion-proof electrical equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing vapour/ spray.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER/ doctor if you feel unwell.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. Hygroscopic.

SECTION 3: Composition/information on ingredients

3.1. Substances

Product name 3-AMINOPROPYLDIMETHYLAMINE

REACH registration number 01-2119486842-27-XXXX

EU index number 612-061-00-6

CAS number 109-55-7

EC number 203-680-9

SECTION 4: First aid measures

4.1. Description of first aid measures

3-AMINOPROPYLDIMETHYLAMINE

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.
Skin contact	Remove contaminated clothing and rinse skin thoroughly with water. Apply sterile dressing. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Inhalation	Coughing, chest tightness, feeling of chest pressure.
Ingestion	May cause chemical burns in mouth and throat.
Skin contact	Chemical burns.
Eye contact	Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated.

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

Notes for the doctor	Treat symptomatically. Inhale Corticosteroid dose aerosol
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	Exothermic reaction with acids
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Nitrous gases (NOx).

5.3. Advice for firefighters

Protective actions during firefighting	Contain and collect extinguishing water.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
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6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
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6.4. Reference to other sections

3-AMINOPROPYLDIMETHYLAMINE

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Eliminate all sources of ignition. Provide adequate ventilation. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from heat, sparks and open flame. Keep locked up. Store in tightly-closed, original container in a well-ventilated place. Store away from the following materials: Acids. Suitable container materials: Stainless steel.

Storage class Flammable liquid storage. Corrosive storage. Acid-reactive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

DNEL Workers - Inhalation; Long term systemic effects: 4.9 mg/m³

PNEC

- Fresh water; 0.0535 mg/l
- Marine water; 0.00535 mg/l
- Intermittent release; 0.535 mg/l
- Sediment (Freshwater); 0.585 mg/kg
- Sediment (Marinewater); 0.0585 mg/kg
- Soil; 0.0854 mg/kg
- STP; 69.5 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Eye wash facilities and emergency shower must be available when handling this product. Provide adequate ventilation.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours. fluoroelastomer glove thickness 0.7mm Butyl rubber. glove thickness 0.7mm Nitrile rubber. glove thickness 0.4mm EN 374

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Gas filter, type A2. EN 136/140/145/143/149

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

3-AMINOPROPYLDIMETHYLAMINE

Appearance	Clear, yellowish liquid.
Colour	Colourless to pale yellow.
Odour	Amine.
Odour threshold	No information available.
pH	pH (diluted solution): 12.7 @ 10%
Melting point	<-50°C
Initial boiling point and range	134°C @ 1013 hPa
Flash point	30°C
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	7.25 hPa @ 20°C
Vapour density	No information available.
Relative density	0.818 @ 20°C
Bulk density	No information available.
Solubility(ies)	Miscible with water.
Partition coefficient	: -0.352 OECD 107
Auto-ignition temperature	215°C
Decomposition Temperature	No information available.
Viscosity	1.6 mPa s @ 20°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No information available.
Oxidising properties	Does not meet the criteria for classification as oxidising.
<u>9.2. Other information</u>	
Refractive index	No information available.
Particle size	No information available.
Molecular weight	102.18
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

SECTION 10: Stability and reactivity

3-AMINOPROPYLDIMETHYLAMINE

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Exothermic reaction with acids

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Acids - oxidising. Copper.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of the following substances: Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen. Nitrous gases (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 410.0

Species Rat

Notes (oral LD₅₀) OECD 401

ATE oral (mg/kg) 410.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Species Rat

Notes (inhalation LC₅₀) OECD 403

Skin corrosion/irritation

Animal data Corrosive.

Serious eye damage/irritation

Serious eye damage/irritation Corrosive

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

3-AMINOPROPYLDIMETHYLAMINE

Carcinogenicity No evidence of carcinogenicity in animal studies. Under certain conditions the substance can form nitrosamines. nitrosamines are carcinogenic in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.

Ingestion May cause chemical burns in mouth and throat. Harmful if swallowed.

Skin contact Causes burns. Harmful in contact with skin.

Eye contact Causes burns.

Target organs Respiratory system, lungs

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Acute toxicity - fish LC50, 96 hours: 122 mg/l, *Leuciscus idus* (Golden orfe)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 59.5 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC₅₀, 72 hours: 53.5 mg/l, *Scenedesmus subspicatus*

12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient : -0.352 OECD 107

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

3-AMINOPROPYLDIMETHYLAMINE

13.1. Waste treatment methods

General information	This material and its container must be disposed of as hazardous waste. Do not puncture or incinerate, even when empty. Materials such as cleaning rags and paper wipes that are contaminated with flammable liquids may self-ignite after use and should be stored in designated fireproof containers with tight-fitting, self-closing lids.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	2734
UN No. (IMDG)	2734
UN No. (ICAO)	2734
UN No. (ADN)	2734

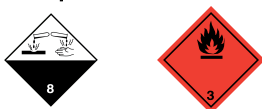
14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S (CONTAINS 3-AMINOPROPYLDIMETHYLAMINE)
Proper shipping name (IMDG)	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S (CONTAINS 3-AMINOPROPYLDIMETHYLAMINE)
Proper shipping name (ICAO)	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S (CONTAINS 3-AMINOPROPYLDIMETHYLAMINE)
Proper shipping name (ADN)	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S (CONTAINS 3-AMINOPROPYLDIMETHYLAMINE)

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID subsidiary risk	3
ADR/RID classification code	FC
ADR/RID label	8
IMDG class	8
IMDG subsidiary risk	3
ICAO class/division	8
ICAO subsidiary risk	3
ADN class	8
ADN subsidiary risk	3

Transport labels



14.4. Packing group

ADR/RID packing group	II
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3-AMINOPROPYLDIMETHYLAMINE

IMDG packing group II

ADN packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-C

ADR transport category 2

Emergency Action Code •2W

Hazard Identification Number 83
(ADR/RID)

Tunnel restriction code (D/E)

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

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
This product may impact SEVESO storage regulations.

Inventory Information EINECS

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

3-AMINOPROPYLDIMETHYLAMINE

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

09/02/2017

Revision

03

Supersedes date

30/06/2015

SDS number

23302

3-AMINOPROPYLDIMETHYLAMINE

Version number	2.000
SDS status	Approved.
Signature	Lisa Bland
Risk phrases in full	R10 Flammable. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R34 Causes burns. R43 May cause sensitisation by skin contact.
Hazard statements in full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.