

**NIELSEN****SAFETY DATA SHEET
AZNU****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name AZNU

Internal identification B015

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

Identified uses Car maintenance product.

1.3. Details of the supplier of the safety data sheet

Supplier
NIELSEN CHEMICALS
RAWDON ROAD
MOIRA
SWADLINCOTE
DERBYSHIRE
DE12 6DA
info@nielsenchemicals.com
TEL: +44 (0) 1283 222277
FAX: +44 (0) 1283 225731

1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330 (24 hrs). +44 (0) 1865 407333 (24 hrs). MEDICAL AND ENVIRONMENTAL EMERGENCIES ONLY

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification**

Physical hazards Aerosol 1 - H222, H229

Health hazards Not Classified

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) F+;R12.

2.2. Label elements**Pictogram**

Signal word Danger

Hazard statements
H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated

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Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P211 Do not spray on an open flame or other ignition source.
	P251 Do not pierce or burn, even after use.
	P260 Do not breathe spray.
	P271 Use only outdoors or in a well-ventilated area.
	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/container in accordance with national regulations.	

Detergent labelling	5 - < 15% aliphatic hydrocarbons, < 5% non-ionic surfactants, Contains N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, 1,2-BENZOISOTHIAZOL-3(2H)-ONE
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2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROCARBON PROPELLANT	10-30%
CAS number: 68476-85-7	EC number: 270-704-2
Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Gas 1 - H220	F+;R12.
Press. Gas, Liquefied - H280	
ETHANEDIOL	1-5%
CAS number: 107-21-1	EC number: 203-473-3
	REACH registration number: 01-2119456816-28-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302	Xn;R22
STOT RE 2 - H373	
ISOTRIDECANOL ETHOXYLATE	<1%
CAS number: 24938-91-8	
Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302	Xn;R22. Xi;R41.
Acute Tox. 4 - H332	
Eye Irrit. 2 - H319	
orthoboric acid, compound with 2-aminoethanol	<1%
CAS number: 26038-87-9	EC number: 247-421-8
Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302	Xn;R22. Xi;R36/38.
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	

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N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE	<1%
CAS number: 2372-82-9	EC number: 219-145-8
M factor (Acute) = 10	
Classification Acute Tox. 3 - H301 Skin Corr. 1A - H314 STOT RE 2 - H373 Aquatic Acute 1 - H400	Classification (67/548/EEC or 1999/45/EC) Xn;R48/22,R22. C;R35. N;R50.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately.
Skin contact	Rinse immediately with plenty of water.
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 if any discomfort continues.

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

Inhalation	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	May cause discomfort.
Skin contact	Product has a defatting effect on skin.
Eye contact	May cause discomfort.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Extremely flammable aerosol. Pressurised container: may burst if heated
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x).

5.3. Advice for firefighters

Protective actions during firefighting	Cool containers exposed to flames with water until well after the fire is out.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Provide adequate ventilation. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. Provide adequate ventilation. Wipe up with an absorbent cloth and dispose of waste safely. Absorb spillage with inert, damp, non-combustible material. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid breathing vapour/spray. Do not pierce or burn, even after use. Do not empty into drains. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 40°C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container in a well-ventilated place.

Storage class Flammable compressed gas 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

Occupational exposure limits

HYDROCARBON PROPELLANT

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³(Sk)

WEL = Workplace Exposure Limit

ETHANEDIOL (CAS: 107-21-1)

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DNEL Industry - Inhalation; Long term local effects: 35 mg/m³
 Industry - Dermal; Long term systemic effects: 106 mg/kg/day
 Consumer - Inhalation; Long term local effects: 7 mg/m³
 Consumer - Dermal; Long term systemic effects: 53 mg/kg/day

PNEC

- Fresh water; 10 mg/l
- Marine water; 1 mg/l
- Intermittent release; 10 mg/l
- STP; 199.5 mg/l
- Sediment (Freshwater); 20.9 mg/kg
- Sediment (Marinewater); 3.7 mg/kg
- Soil; 1.53 mg/kg

ISOTRIDECANOL ETHOXYLATE (CAS: 24938-91-8)

DNEL Workers - Inhalation; Long term systemic effects: 87 mg/kg/day
 Workers - Dermal; Long term systemic effects: 2080 mg/kg/day
 General population - Dermal; Long term systemic effects: 1250 mg/kg/day

orthoboric acid, compound with 2-aminoethanol (CAS: 26038-87-9)

DNEL Workers - Inhalation; Long term systemic effects: 5.9 mg/m³
 Workers - Dermal; Long term systemic effects: 3.3 mg/kg/day
 General population - Inhalation; Long term systemic effects: 1.4 mg/m³
 General population - Dermal; Long term systemic effects: 1.7 mg/kg/day
 General population - Oral; Long term systemic effects: 1.7 mg/kg/day

PNEC

- Fresh water; 0.026 mg/l
- Marine water; 0.0026 mg/l
- Water, Intermittent release; 10 mg/l
- Sediment (Freshwater); 0.054 mg/l
- Sediment (Marinewater); 0.0054 mg/l
- Soil; 0.014 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. 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. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Neoprene. Rubber (natural, latex). Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Hygiene measures Wash hands thoroughly after handling.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Off-white.
Odour	Mild.
pH	Not applicable.
Solubility(ies)	Slightly soluble in water.

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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10.4. Conditions to avoid

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

Materials to avoid	Flammable/combustible materials.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x).
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)	14,311.07
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Inhalation	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	May cause discomfort if swallowed.
Skin contact	Product has a defatting effect on skin.
Eye contact	May cause discomfort.

Toxicological information on ingredients.

HYDROCARBON PROPELLANT

Toxicological effects	No information available.
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC₅₀ vapours mg/l)	20.01
Species	Rat
ATE inhalation (vapours mg/l)	20.01
<u>Reproductive toxicity</u>	
Reproductive toxicity - development	No information available.

ETHANEDIOL

<u>Acute toxicity - oral</u>	
ATE oral (mg/kg)	500.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	3,500.0
Species	Mouse
ATE dermal (mg/kg)	3,500.0
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 1500 mg/kg/day, Oral, Mouse
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Prolonged or repeated exposure may cause the following adverse effects: Liver and/or kidney damage.

ISOTRIDECANOL ETHOXYLATE

<u>Acute toxicity - oral</u>	
ATE oral (mg/kg)	500.0
<u>Acute toxicity - inhalation</u>	
ATE inhalation (dusts/mists mg/l)	1.5
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 25,000 mg/kg/day, Dermal, NOAEC 435 mg/m ³ , Inhalation,

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orthoboric acid, compound with 2-aminoethanol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE

Acute toxicity - oral

ATE oral (mg/kg) 100.0

SECTION 12: Ecological Information

Ecotoxicity The product is not expected to be hazardous to the environment.

12.1. Toxicity

Acute toxicity - fish Not determined.

Ecological information on ingredients.

HYDROCARBON PROPELLANT

Acute toxicity - fish Not determined.

ETHANEDIOL

Acute toxicity - fish LC₅₀, 96 hours: 72860 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 6,500 - 13,000 mg/l, Selenastrum capricornutum

Chronic toxicity - fish early life stage NOEC, 7 days: 15,380 mg/l, Pimephales promelas (Fat-head Minnow)

Chronic toxicity - aquatic invertebrates NOEC, 7 days: 8590 mg/l, Freshwater invertebrates

ISOTRIDECANOL ETHOXYLATE

Acute toxicity - fish LC₅₀, 96 hours: 1 - 100 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1 - 100 mg/l, Daphnia magna

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orthoboric acid, compound with 2-aminoethanol

Acute toxicity - fish LC₅₀, 96 hours: 617 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 423 mg/l, Daphnia magna

N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute) 10

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

Ecological information on ingredients.

ETHANEDIOL

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.

Ecological information on ingredients.

ISOTRIDECANOL ETHOXYLATE

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product has poor water-solubility.

Ecological information on ingredients.

ETHANEDIOL

Mobility The product is soluble in water.

ISOTRIDECANOL ETHOXYLATE

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

ISOTRIDECANOL ETHOXYLATE

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

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Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

IMDG class 2.1

ICAO class/division 2.1

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).

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EU legislation	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 453/2010 of 20 May 2010.
Guidance	Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

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. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. vPvB: Very Persistent and Very Bioaccumulative. NOEC: No Observed Effect Concentration.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	06/06/2016
Revision	3.2
Supersedes date	28/10/2015
SDS number	25335
Risk phrases in full	R12 Extremely flammable. R22 Harmful if swallowed.
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed. H302 Harmful if swallowed. 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. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed. H400 Very toxic to aquatic life.

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