

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

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

1.1 Product identifier

05060 Anti-Fog Spray

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

Relevant identified uses: product that prevents the windscreen from fogging, providing a better visibility.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Supplier: **Nowy Samochód S.A.**
Address: ul. Zbyszka Cybulskiego 3, 00-725 Warsaw, Poland
Telephone: +48 602-444-356
E-Mail: info@soft99.pl
E-mail address for a competent person responsible for sds: biuro@theta-doradztwo.pl

1.4 Emergency telephone number

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Aerosol 1 H222-H229, Eye Dam. 1 H318

Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye damage.

2.2 Label elements

Hazard pictograms and signal words



Names of substances mentioned on the label

Contains: 2,2'-iminodiethanol.

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H318 Causes serious eye damage.

Precautionary statements

P102 Keep out of reach of children.
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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.



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2.3 Other hazards

Substances contained in the product do not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

propane

Concentration range: < 10 %
CAS number: 74-98-6
EC number: 200-827-9
Index number: 601-003-00-5
Registration number: -
Classification: Flam. Gas 1 H220, Press. Gas H280

butane

Concentration range: < 10 %
CAS number: 106-97-8
EC number: 203-448-7
Index number: 601-004-00-0
Registration number: -
Classification: Flam. Gas 1 H220, Press. Gas H280

isobutane

Concentration range: < 10 %
CAS number: 75-28-5
EC number: 200-857-2
Index number: 601-004-00-0
Registration number: -
Classification: Flam. Gas 1 H220, Press. Gas H280

2,2'-iminodiethanol

Concentration range: 1 – 5 %
CAS number: 111-42-2
EC number: 203-868-0
Index number: 603-071-00-1
Registration number: -
Classification: Acute Tox 4 H302, Skin Irrit 2 H315, Eye Dam1 H318, STOT RE 2 H373

Full text of each relevant H phrase is given in section 16 of SDS.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: take off contaminated clothes. Wash contaminated skin thoroughly with water and soap. Consult a doctor if disturbing symptoms occur.



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Eye contact: contact an ophthalmologist immediately. Remove contact lenses. Rinse contaminated eyes with water for 10-15 minutes. Avoid strong stream of water – risk of damage of the cornea. Put on sterile dressing.

Ingestion: exposure by this route does not typically occur. If swallowed, do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Contact a doctor, show container or label.

Inhalation: remove the victim to fresh air. Keep warm and calm. Consult a doctor, if disturbing symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: tearing, burning sensation, irritation, risk of eye damage.

Skin contact: possible dryness, burning sensation, defatting.

Inhalation: high concentration of vapours and mists may cause irritation of mucous membranes of eyes and respiratory tract, tearing, redness of conjunctiva, cough, burning sensation in throat and nose.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, extinguishing powder, alcohol resistance foam, carbon dioxide. Adapt the extinguishing media to surrounding materials.

Unsuitable extinguishing media: water jet – risk of propagation of flame.

5.2 Special hazards arising from the substance or mixture

During combustion harmful gases consisting of e.g. carbon oxides may be produced. Do not inhale combustion products, it may cause health risk. Product vapours are heavier than air and accumulate in the lower parts of the rooms. There is a high probability that an explosive mixture will form with air - in case of such danger, order an immediate evacuation. Extremely flammable aerosol – risk of explosion at high temperature.

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Do not let used extinguishing media to reach drainage system, ground and surface waters. In case of fire cool endangered containers with water spray from a safe distance.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Wear personal protective equipment. Avoid eyes and skin contamination. Ensure adequate ventilation. Prohibit smoking, using open flame and sparking tools. Do not inhale aerosol.

6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Do not let product to reach drainage system, ground and surface waters. Notify relevant emergency services.

6.3 Methods and material for containment and cleaning up

Remove the damaged packaging mechanically. Absorb the leakage with incombustible liquid-binding materials (e.g. sand, earth, universal binding substances, silica, vermiculite, etc.) and transfer to appropriate waste containers. Treat collected material as a waste. Clean and ventilate contaminated area. Use non-sparking tools.

6.4 Reference to other sections

Appropriate conduct with waste product – section 13. Personal protection equipment – section 8.



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Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke during work. Wear personal protective equipment. Avoid eyes and skin contamination. Do not inhale aerosol. Ensure adequate ventilation. Wash hands before breaks and after work. Protect product from high temperature and direct sunlight. Work away from sources of fire. Do not spray on an open flame or other ignition source. Use as intended. Do not pierce or burn even after use. Do not allow concentration of vapours in the air exceeding occupational exposure limits and limits of explosive properties. Eliminate sources of ignition - do not use open fire, do not smoke, do not use sparking tools and clothes made of fabrics susceptible to electrification; protect container from heating.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original containers in a dry, cool and well ventilated place at temperature below 50 °C. Keep away from food, foodstuffs, animal feed and incompatible materials (see subsection 10.5). Store away from sources of ignition and direct sunlight. Do not pierce or burn empty containers.

7.3 Specific end use(s)

No information about uses other than mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

There are no occupational exposure limit values at working place for the substances present in the mixture at the European Union level. Please check any national occupational exposure limit values in your country for substance contained in this product.

Legal Basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EC, 2017/164/EU.

8.2 Exposure controls

Observe good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Avoid eyes and skin contamination. Wash hands before breaks and after work. Use protective hand cream. Ensure adequate ventilation. Avoid inhalation of vapors/aerosols. If there is a risk of inflammation of the clothing on worker, emergency showers and eyewash stations should be installed.

Hand and body protection

Use appropriate protective gloves in case of direct contact with the product. Wear protective clothing.

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed

Eye protection

Use tightly fitting protective glasses.

Respiratory protection

Respiratory protection is not required when product is used as intended.

Personal protective equipment must meet requirements of Regulation 2016/425/EU. Employer is obliged to ensure equipment adequate to activities carried out, with quality demands, cleaning and maintenance.

Environmental exposure controls

Avoid release to the environment, do not enter the sewage system. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.



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Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

physical state:	aerosol
colour:	light yellow
odour:	by product range
odour threshold:	not determined
pH:	not determined
melting point/freezing point:	not determined
initial boiling point and boiling range:	100 °C
flash point:	not determined
evaporation rate:	not determined
flammability (solid, gas):	extremely flammable aerosol
upper/lower flammability or explosive limits:	not determined
vapour pressure:	0,32 MPa (25 °C)
vapour density:	not determined
density:	1,017 (25 °C)
solubility(ies):	insoluble in water
partition coefficient: n-octanol/water:	not determined
auto-ignition temperature:	not determined
decomposition temperature:	not determined
explosive properties:	not display
oxidising properties:	not display
viscosity:	not determined

9.2 Other information

No additional test results.

Section 10: Stability and reactivity

10.1 Reactivity

Product is reactive. Vapours may form explosive mixtures with air. It does not undergo hazardous polymerization. See also subsections 10.3 and 10.5

10.2 Chemical stability

The product is stable under normal conditions of handling and storage.

10.3 Possibility of hazardous reactions

Possible exothermic reactions in contact with strong oxidants.

10.4 Conditions to avoid

Protect from temperature above 50 °C. Avoid direct sunlight, sources of heat and ignition.

10.5 Incompatible materials

Strong oxidizers.

10.6 Hazardous decomposition products

Not known.

Section 11: Toxicological information

11.1 Information on toxicological effects

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.



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Toxicity of components

2,2'-iminodiethanol [CAS 111-42-2]

Oral: LD₅₀ 1 613 mg/kg (rat)
Skin: LD₅₀ 8 810,5 mg/kg (rabbit)

Toxicity of mixture

Acute Toxicity

ATE_{mix} (oral) > 2000 mg/kg

ATE_{mix} value was calculated using relevant converted acute toxicity point estimate included in 3.1.2 table from Regulation 1272/2008/EC as amended and test results.

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: Ecological information

12.1 Toxicity

Toxicity of components

2,2'-iminodiethanol [CAS 111-42-2]

Toxicity for Daphnia LC₅₀/48h 2,15 µg/l (*Daphnia magna*)

Toxicity of mixture

Product is not classified as hazardous for the environment.

12.2 Persistence and degradability

No data.

12.3 Bioaccumulative potential

Bioaccumulation is not expected.

12.4 Mobility in soil

Mobility of components of the mixture depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5 Results of PBT and vPvB assessment

Substances contained in the product do not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

12.6 Other adverse effects

Product is not classified as hazardous to the ozone layer. Consider other harmful effects of individual components of the mixture on the environment (eg, endocrine disrupting potential, global warming potential).

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the mixture: disposal in accordance with the local legislation. Store residues in original containers. Do not empty into drains. Waste code should be assigned in place of formation.

Disposal methods for used packing containers should be reused/recycled/eliminated in accordance with the local legislation. Only completely empty packing can be recycled. Do not pierce or burn empty containers.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

Section 14: Transport information

14.1 UN Number

UN 1950



14.2 UN proper shipping name

AEROSOLS, flammable

14.3 Transport hazard class(es)

2 (label 2.1)

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Product is not classified as dangerous for the environment according to transport regulations.

14.6 Special precautions for user

Avoid sources of heat and fire, heating. Personal protective equipment - section 8. Packages shall not be thrown or subjected to impact. Receptacles shall be so stowed in the vehicle or container that they cannot overturn or fall.

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

Not applicable.

Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)



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Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

15.2 Chemical safety assessment

It is not necessary to carry out a chemical safety assessment for the mixture.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H220	Extremely flammable gas.
H280	Pressurised container: May burst if heated.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms

Flam. Gas. 1	Flammable gas category 1
Press. Gas.	Gases under pressure
Acute Tox. 4	Acute Toxicity category 4
Eye Dam. 1	Serious eye damage 1
STOT RE 2	Specific target organ toxicity – repeated exposure category 2
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Persons related to the transportation of the dangerous goods in compliance with the ADR Agreement should be properly trained within the scope of performed tasks (general training, on-the-job training and training related to the safety issues).

Key literature references and sources of data

This SDS was prepared on the basis of manufacturer's SDS, literature data, online databases as well as our knowledge and experience, taking into account current legislation.

Procedures used to classify a mixture

Classification was based on test results and data on hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended.

Additional information

Date of update:	17.06.2019
Version:	1.0/EN
Composed by:	mgr Alicja Włodarska (on the basis of producer's data)
Safety Data Sheet made by:	„THETA” Technical Consulting



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The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.