

SAFETY DATA SHEET

Revision date: 06.05.2025

VERSION: 3.0/EN

SAFETY DATA SHEET**Smart 40 aerosol penetrating and lubricating spray**

prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Smart 40

UFI: 7U50-C0S5-W00S-TP2J

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

Identified uses: Universal penetrating and lubricating aerosol spray for metal surfaces – lubrication, corrosion protection, moisture displacement, loosening of seized/corroded connections and cleaning.

SU 3 Industrial uses

SU 22 Professional uses

Uses advised against: Other than those listed above.

1.3 Details of the supplier of the safety data sheet

Zakłady Chemiczne „ANSER” Sp. z o.o.

ul. Dźwigowa 3/2, 02-437 Warszawa, Poland

Tel.: +48 46 856 73 40 fax: +48 46 856 73 50

email: a.zagajewska@anser.pl

1.4 Emergency telephone number

Emergency telephone number in Poland (available 8:00 a.m. – 4:00 p.m.): +48 46 856 73 40

112 (emergency number), 998 (fire brigade), 999 (medical emergency)

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Classification in accordance with Regulation (EC) No 1272/2008:

Hazards arising from physicochemical properties:

Aerosols, Hazard Category 1 [Aerosol 1]

Extremely flammable aerosol. Pressurised container: may burst if heated (H222-H229)

Hazards to health

Skin sensitisation, Hazard Category 1 [Skin Sens.1]

May cause an allergic skin reaction. (H317)

Aspiration hazard, Hazard Category 1 [Asp. Tox. 1]*

May be fatal if swallowed and enters airways (H304)

Note *: Mixtures placed on the market in aerosol form need not be labelled with the Asp. Tox. 1 H304 hazard statement.

Hazards to the environment:

The mixture does not pose a hazard to the environment. Under normal conditions of use, no effects on the environment are known or anticipated.

2.2 Label elements

Pictogram

GHS02

GHS07

Signal word: DANGER

Names of hazardous constituents on the label:

Contains: Benzenesulfonic acid, di-C10-14-alkyl derivatives, calcium salts

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Hazard statement(s)

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H317 May cause an allergic skin reaction.

Precautionary statement(s)

General

P102 Keep out of reach of children.

Prevention:

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.

P280 Wear protective gloves.

Storage:

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.

2.3 Other hazards

Vapours form explosive mixtures with air. Heating causes a pressure increase and a risk of bursting.

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

PBT substances (persistent, bioaccumulative and toxic substances).

vPvB substances (substances that are very persistent and very bioaccumulative).

Ecological information:

The mixture does not contain constituents considered to have endocrine-disrupting properties towards the environment, under REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Toxicological information:

The mixture does not contain constituents considered to have endocrine-disrupting properties under Article 57(f) REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100, at levels of 0.1% or above.

List of endocrine-disrupting substances:

The product contains 2,6-di-tert-butyl-p-cresol (EC: 204-881-4, CAS: 128-37-0), which is undergoing evaluation for endocrine-disrupting effects.

- Status: Under evaluation under the Substance Evaluation (SEV) procedure.
- Member State conducting the evaluation: France
- Date of submission for evaluation: 12.11.2014
- Last status update: 03.02.2021

No final conclusions on the hazards have yet been established. Details of the evaluation can be found in the documentation published by the Ministry of Ecology, Sustainable Development and Energy (France).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Not applicable.

3.2 Mixture

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Identification numbers	Chemical name	wt. %	Pictogram, signal word codes	Hazard class and category codes	H-statement codes
CAS: 64742-55-8 EC (EINECS): 265-158-7 Index No.: 649-468-00-3 Own registration number: —	Light paraffinic distillates, hydrotreated (petroleum) [1,3]	48<x<55	GHS08 Dgr	Asp. Tox. 1	H304
CAS: 68476-85-7 EC (EINECS): 270-704-2 Index No.: 649-202-00-6 Own registration number: Substance exempted from the registration requirement under Article 2(7)(b) of the REACH Regulation (EC) No 1907/2006 and Annex V thereto	Petroleum gases, liquefied [2]	<40	GHS05 Dgr	Extremely Flam. Gas: Press. Gas:	H220 H280
CAS: 1471316-72-9 EC (EINECS): 939-603-7 Index No.: — Own registration number: 01-2119978241-36-xxxx	Benzenesulfonic acid, di-C10-14-alkyl derivatives, calcium salts	<3	GHS07 Wng	Skin Sens. 1B:	H317
CAS: 52305-09-6 EC (EINECS): 257-836-6 Index No.: — Own registration number: —	Succinic acid, 2-(tetrapropenyl)-, mono-ester with propylene glycol	<1.5	—	Aquatic Chronic 3	H412
CAS: 27859-58-1 EC (EINECS): 248-698-8 Index No.: — Own registration number: —	(tetrapropenyl) succinic acid]	<1.5	GHS07 Wng	Skin Irrit. 2 Eye Irrit. 2 Aquatic Chronic 3	H315 H319 H413
CAS: 128-37-0 EC (EINECS): 204-881-4 Index No.: — Own registration number: —	2,6-di-tert-butyl-p-cresol	<0.2	GHS09 Wng	Aquatic Acute 1 M=1 Aquatic Chronic 1 M=1	H400 H410

[1] Substance with a nationally set maximum permissible concentration in the working environment. See Section 8.

[2] The substance is not classified as carcinogenic or mutagenic [cf. Table 3.1 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 – note (former note) K] – according to information from the manufacturer, it contains less than 0.1% by weight of buta-1,3-diene.

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[3] Note L: The harmonised classification of the substance as a carcinogen applies unless it can be shown that the substance contains less than 3% dimethyl sulphoxide extract, measured by the IP 346 method ("Determination of polycyclic aromatics in petroleum fractions – dimethyl sulphoxide extraction method" – Institute of Petroleum, London), in which case the classification for this hazard class is also carried out in accordance with Title II of this Regulation.

The full text of the H-statements is given in Section 16 of the Safety Data Sheet.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Skin contact: Remove contaminated clothing. Rinse exposed areas of skin thoroughly with running water and soap. Consult a doctor if worrying symptoms occur.

Eye contact: Rinse contaminated eyes thoroughly with water for at least 15 minutes. Avoid a strong stream of water – risk of corneal damage. Protect the unaffected eye, remove contact lenses. Consult an ophthalmologist if irritation occurs.

Ingestion: Exposure by this route does not normally occur. However, in the event of swallowing, do not induce vomiting. Rinse the mouth with water. Seek immediate medical attention, show the label.

Inhalation: Move the affected person to fresh air, keep warm and at rest. Consult a doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in Section 2.2 (label elements) and/or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Show this safety data sheet or the label/packaging to the medical personnel providing assistance. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media:

Foam, carbon dioxide, extinguishing powders, water – spray.

Unsuitable extinguishing media:

Do not use a solid (jet) stream of water.

5.2 Special hazards arising from the substance or mixture

In the event of a fire, the product may generate harmful gases consisting of carbon oxides and other unidentified thermal decomposition products. Do not inhale combustion products – may pose a health hazard.

5.3 Advice for firefighters

General protective measures typical of a fire. Do not remain in an area threatened by fire without appropriate chemical-resistant clothing and self-contained breathing apparatus. Do not allow firefighting water to enter the sewage system, surface water or groundwater. Gas may accumulate near ground level and travel long distances, creating a risk of fire or explosion. Cool fire-exposed containers from a safe distance with a water spray. Collect used extinguishing agents.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Restrict access of unauthorised persons to the area of the incident until the appropriate clean-up operations have been completed. Ensure that clean-up of the incident and its consequences is carried out only by trained personnel. In the event of large spills, isolate the endangered area. Avoid contamination of skin and eyes. Ensure adequate ventilation. Prohibit smoking, the use of open flames and spark-producing tools. Use personal protective equipment. Do not inhale the sprayed liquid.

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6.2 Environmental precautions

Under normal conditions, there is no hazard to the environment. Aerosols are characterised by very easy evaporation and high volatility; if released from the container, they react rapidly with hydroxyl groups and ozone. Do not allow the product to enter drains, surface water or groundwater. In the event of a release of large quantities of the product or contamination of the environment, notify the relevant authorities and chemical emergency services.

6.3 Methods and material for containment and cleaning up

Collect damaged packaging mechanically. Absorb the spill using non-combustible liquid-absorbing materials (e.g. sand, earth, diatomaceous earth, vermiculite) and place in waste containers. Treat the collected material as waste. Clean the contaminated area. Do not use sparking tools. Do not smoke.

6.4 Reference to other sections

Personal protective equipment – see Section 8. Dispose of in accordance with the recommendations given in Section 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Comply with the legal regulations on protection and safety. Avoid contact with eyes and skin. Use personal protective equipment. Avoid inhaling the aerosol. Ensure adequate general and/or local ventilation. Eliminate ignition sources – do not use open flame, do not smoke, do not use spark-producing tools or clothing made of fabrics prone to electrostatic charging; protect containers from heating. Do not spray onto an open flame or glowing material. Prevent the build-up of electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry and cool place. Do not expose to temperatures exceeding 50°C / 122°F. Keep away from sources of fire and heat. Observe the smoking ban and the ban on the use of open flames and spark-producing tools within the storage area. Do not pierce or burn packaging, even after use. Store away from food, foodstuffs and animal feed. Avoid contact of the product with strong oxidising agents – contact poses a risk of ignition – and with substances corrosive to steel – risk of damage to the aerosol containers and release of their contents.

7.3 Specific end use(s)

See Section 1.2 of the SDS.

No information available on other uses.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

PL: Light paraffinic distillates, hydrotreated (petroleum) (CAS: 64742-55-8)

OEL (NDS) 5 mg/m³; STEL (NDSCh) not established; Ceiling value (NDSP) not established.

PL: Buta-1,3-diene [106-99-0]

OEL (NDS) 4.4 mg/m³; STEL (NDSCh) not established; Ceiling value (NDSP) not established.

PL: Butane [106-97-8]

OEL (NDS) 1900 mg/m³; STEL (NDSCh) 3000 mg/m³; Ceiling value (NDSP) not established.

PL: Propane [74-98-6]

OEL (NDS) 1800 mg/m³; STEL (NDSCh) not established; Ceiling value (NDSP) not established.

Legal basis:

Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on maximum permissible concentrations and intensities of factors harmful to health in the working environment [Journal of Laws 2018.1286 of 3.07.2018, as amended, including 2024 item 1017].

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Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the working environment (Journal of Laws 2023 item 419, as amended, Journal of Laws 2024 item 1110).

Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal of Laws 2016 item 1488, as amended, Journal of Laws 2024 item 1123).

EU

EU: 1,3-Butadiene [106-99-0]

TWA (8h): 2.2 mg/m³ / 1 ppm; STEL (15 minutes): not established.

Legal basis:

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 (EU) 2017/164 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.

Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

DNEL/PNEC

Light paraffinic distillates, hydrotreated (petroleum)

Workers:

DNEL (inhalation, aerosol): 5.4 mg/m³, exposure duration: 8 h

– effect: chronic systemic effects

Consumers:

DNEL (inhalation, aerosol): 1.2 mg/m³, exposure duration: 24 h

– effect: chronic systemic effects

Recommended monitoring procedures

Procedures for monitoring the concentration of hazardous components in the air and workplace air-quality control procedures should be applied – where available and justified for the given position – in accordance with the relevant Polish or European Standards, taking into account the conditions prevailing at the place of exposure and appropriate measurement methodology adapted to the working conditions.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Do not inhale the aerosol. During the production process, local exhaust ventilation and general room ventilation are necessary. Local exhaust ventilation may be required for some workstations.

8.2.2 Individual protection measures, such as personal protective equipment

Where the concentration of hazardous substances is established and known, personal protective equipment should be selected taking into account the concentration of the substance present at the given workstation, the exposure time, the tasks performed by the worker and the recommendations given by the manufacturer of the protective equipment. In an emergency situation, or where the concentration of the substance at the workstation is not known, use personal protective equipment that isolates the body (a gas-tight suit fitted with isolating respiratory protective equipment).

Note: Aerosols, like most vapours/mists, should never be used in enclosed spaces without adequate ventilation.

Respiratory tract: Not required under normal conditions of use. In the event of insufficient ventilation, use an approved respirator with a filter cartridge. For work in a confined space, with insufficient oxygen content in the air, high uncontrolled

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emissions, or other circumstances in which a filter mask does not provide sufficient protection, use breathing apparatus with an independent air supply.

Hands and skin: Protective gloves, made of neoprene or nitrile rubber or chrome-tanned leather, complying with PN-EN 16523-1:2015-05 and PN-EN 420+A1:2012. Gloves should retain their flexibility at a temperature below the boiling point of the gas at atmospheric pressure. It may be necessary to increase the frequency of glove changes if immersion or prolonged contact with the product occurs. The choice of glove material is possible taking into account breakthrough times, permeation rates and degradation. The material from which the gloves are made must be impermeable and resistant to the product. The resistance of the glove materials must be checked before use. Breakthrough time information should be obtained from the glove manufacturer and observed. Regular replacement of gloves is recommended, and immediate replacement if any signs of wear, damage (tears, punctures) or changes in appearance (colour, elasticity, shape) occur.

Eyes: When handling small quantities, no special protection is required. During major exposure, the use of safety glasses protecting against mist, liquid droplets and splashes, or a face shield, is recommended.

Other skin protection: Depending on the task performed, protective clothing appropriate to the potential hazard should be used, adequate to the existing thermal, chemical or mechanical hazards.

8.2.3 Environmental exposure controls

Protect against entry into the municipal water/sewage system and watercourses. Any emissions from ventilation systems and process equipment should be checked to determine their compliance with the requirements of environmental protection legislation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Aerosol

Colour: No data available

Odour: Characteristic

Melting/freezing point: No data available

Boiling point and boiling range: No data available

Flammability of materials: Flammable product

Lower and upper explosive limits: 11% vol./1.5% vol. (data for the propellant gas)

Flash point: No data available

Auto-ignition temperature [gases, liquids]: No data available

Decomposition temperature: No data available

pH: Not applicable

Kinematic viscosity [mm²/s]: No data available

Solubility: Practically insoluble in water at 20°C

Partition coefficient: n-octanol/water: No data available

Vapour pressure: No data available

Relative density: No data available

Relative vapour density: No data available

Particle characteristics [solids]: Not applicable [aerosol]

9.2 Other information

9.2.1 Information on physical hazard classes

Explosive properties: The product forms explosive mixtures with air

Oxidising properties: Given the composition of the mixture, oxidising properties are not expected

9.2.2 Other safety properties

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No results of additional tests.

NOTE: evaporates immediately, forms explosive mixtures with air.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

No reactivity under the conditions of storage and handling intended for the product.

10.2 Chemical stability

Under normal conditions of use and storage, the product is stable.

10.3 Possibility of hazardous reactions

Risk of explosion on contact with air.

10.4 Conditions to avoid

Avoid direct sunlight, sources of heat and fire, and heating above 50°C.

10.5 Incompatible materials

Protect from strong acids and bases, as well as from oxidising substances.

10.6 Hazardous decomposition products

Depending on the conditions of decomposition, complex mixtures of chemical substances may be released as a result: carbon dioxide (CO₂), carbon monoxide and other organic compounds. For more information see Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Toxicity of the mixture's components

Light paraffinic distillates, hydrotreated (petroleum)

Oral LD₅₀ >5000 mg/kg (rat)

Dermal LD₅₀ >5000 mg/kg (rabbit)

Inhalation LC₅₀ >5.53 mg/l (rat)

Acute toxicity of the mixture

Acute toxicity

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/eye irritation:

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

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

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.

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Specific target organ toxicity – single exposure:

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

Specific target organ toxicity – repeated exposure:

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

Aspiration hazard:

The mixture contains components of low viscosity which have been classified as posing an aspiration hazard if swallowed, H304. However, owing to the form of the product [aerosol], which prevents swallowing, the product as a whole does not carry a risk of aspiration into the lungs.

11.2 Information on other hazards

Endocrine-disrupting properties:

The product has no effect on endocrine function in accordance with the assessment criteria set out in Regulations (EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605.

Other information:

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity of the mixture's components

Technical propane-butane mixture

LC50/96 h *Oncorhynchus mykiss* > 24.11 mg/l

EC50/48 h *Daphnia magna* > 14.22 mg/l

EC50/72 h *Pseudokirchneriella subcapitata* > 7.71 mg/l

Light paraffinic distillates, hydrotreated (petroleum)

Acute toxicity to aquatic organisms:

- EC₅₀ (*Daphnia magna*, 48 h): >10 000 mg/l
- EC₅₀ (*Pseudokirchneriella subcapitata*, 72 h): >100 mg/l
- LC₅₀ (*Pimephales promelas*, 96 h): >100 mg/l

Chronic toxicity:

- NOEL (invertebrates, 21 days): 100 mg/l
- NOEL (*Oncorhynchus mykiss*, 28 days): >1000 mg/l

Toxicity of the mixture

The mixture does not pose a hazard to the environment. Under normal conditions of use, no effects on the environment are known or anticipated.

To minimise long-term global pollution, the following should be considered:

- Reducing the consumption of single-use products and packaging.
- Participating in recycling activities.
- Preventing the product from entering water, wastewater or soil.

12.2 Persistence and degradability

It disperses rapidly in air. Rapid oxidation occurs in air through a photochemical reaction.

12.3 Bioaccumulative potential

No data available for the mixture.

12.4 Mobility in soil

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Gaseous components evaporate rapidly from the surface of soil and water. The mobility of the substances depends on their hydrophilic and hydrophobic properties and on the abiotic and biotic conditions of the soil, including its structure, climatic conditions, season of the year (in Poland, in a moderate transitional climate) and soil organisms, mainly bacteria, fungi, algae and invertebrates.

12.5 Results of PBT and vPvB assessment

Does not meet the PBT and vPvB criteria.

12.6 Endocrine-disrupting properties

The product does not contain constituents included in the list drawn up in accordance with Article 59(1) as having endocrine-disrupting properties, nor constituents with endocrine-disrupting properties in accordance with the criteria set out in Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1%.

12.7 Other adverse effects

No contamination of wastewater occurs. Given the rapid dispersal from solutions, the product does not pose a hazard to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not dispose of together with municipal waste. Do not pierce or burn, even after use.

Product waste and unused residues must be handed over to entities authorised to manage waste, in accordance with applicable national and EU legislation. Avoid release into the environment.

Aerosol packaging (both full and empty) should be treated as hazardous waste owing to residues of flammable substances and the possibility of explosion under the effect of heat or mechanical damage.

Recommended waste code:

- 16 05 04* - gases in pressure containers (including halons) containing hazardous substances.
- 15 01 10* - packaging containing residues of, or contaminated by, hazardous substances.

The final waste code should be established on the basis of the actual use of the product and in accordance with local regulations.

Legal basis:

EU legislation:

Directives of the European Parliament and of the Council: 2008/98/EC, as amended, 94/62/EC, as amended.

National legislation:

Act of 14 December 2012 on Waste (Journal of Laws 2023 item 1587, consolidated text).

Act of 13 June 2013 on Packaging and Packaging Waste Management (consolidated text Journal of Laws 2024 item 927).

Regulation of the Minister of Climate of 2 January 2020 on the Waste Catalogue, Journal of Laws 2020 item 10.

SECTION 14: TRANSPORT INFORMATION

The mixture is subject to the regulations on the carriage of dangerous goods contained in ADR (road transport), RID (rail transport), ADN (inland waterway transport), IMDG (sea transport), ICAO/IATA (air transport).

14.1 UN number or ID number

ADR/RID/IMDG/IATA: UN1950

14.2 UN proper shipping name

ADR/RID: AEROSOLS, flammable

IMDG/IATA: AEROSOLS, flammable

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14.3 Transport hazard class(es)

ADR/RID/IMDG/IATA: 2

14.4 Packing group

ADR/IMDG/IATA: not applicable

14.5 Environmental hazards

ADR/RID/IMDG/IATA: The product does not pose a hazard to the environment in accordance with the criteria contained in the UN Model Regulations.

14.6 Special precautions for user

ADR

Tunnel restriction code: [D]

Transport category: 2

Limited quantities (3.4.6): 1L

Excepted quantities: E0

Special provision: 190, 327, 344, 625

Special provisions for packages: V14

Special provisions for loading: CV9; CV12

Packing instructions: P207, LP200// PP87; RR6; L2

Mixed packing: MP9

RID

Transport category: 2

Limited quantities (3.4.6): 1L

Excepted quantities: E0

Special provision: 190, 327, 344, 625

Packing instructions: P207, LP200// PP87; RR6; L2

Mixed packing: MP9

Express parcels: CE2

Tank instructions:

Special provisions for tanks:

Hazard identification number: 23

Special provisions for packages: W14

Special provisions for loading: CW9; CW12

IMDG

EmS code: F-D, S-U

Stowage: SW1; SW22

Segregation: SG69

Limited quantities: 1000 ml

Excepted quantities: E0

Packing instructions: P207, LP200/PP87; L2

Special provisions: 63.190.277.327.344.381.959

IATA

Hazard labels: Flamm. gas

IATA (passenger and cargo aircraft)

Excepted quantities, other than passenger and cargo aircraft (IATA): E0

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Limited quantities for passenger and cargo aircraft (IATA): Y203

Maximum net quantity per package for limited quantities for passenger and cargo aircraft (IATA): 30 kg G

Packing instructions for passenger and cargo aircraft (IATA): 203

Maximum net quantity per package for passenger and cargo aircraft (IATA): 75 kg

IATA (cargo aircraft only)

Packing instructions for cargo aircraft only (IATA): 203

Maximum net quantity per package for cargo aircraft only (IATA): 150 kg

Special provisions (IATA): A145; A167; A802

ERG code (IATA): 10L

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

Seveso Directive 2012/18/EU (Seveso III)

P3a FLAMMABLE AEROSOLS

Category 1 or 2 aerosols containing category 1 or 2 flammable gases or category 1 flammable liquids

Other regulations

1. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and 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.
2. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
3. REGULATION (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.
4. Directive 94/62/EC of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste, as amended.
5. Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC (as amended by subsequent regulations).
6. Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste.
7. Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals (PIC Regulation).
8. Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.
9. Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP), including the latest ATPs (Adaptations to Technical Progress).
10. Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE Directive).
11. Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants (recast of Regulation (EC) No 850/2004).
12. Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors:
13. Act of 13 April 2016 on the Safety of Trade in Explosives Precursors (Journal of Laws 2016 item 669): consolidated text Journal of Laws 2019 item 994.

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14. Act of 25 February 2011 on Chemical Substances and their Mixtures, Journal of Laws 2011 No. 63 item 322, consolidated text, Journal of Laws 2022 item 1816.

15. Act of 13 June 2013 on Packaging and Packaging Waste Management (consolidated text Journal of Laws 2024 item 927).

16. Act of 14 December 2012 on Waste (Journal of Laws 2023 item 1587, consolidated text).

17. Regulation of the Minister of Economy of 5 November 2009 on detailed requirements for aerosol products (Journal of Laws 2009 No. 188, item 1460, as amended):

18. Announcement of the Minister of Entrepreneurship and Technology of 15 April 2019 on the publication of the consolidated text of the Regulation of the Minister of Economy on detailed requirements for aerosol products (Journal of Laws 2019 item 975):

19. Act on the Carriage of Dangerous Goods of 19 August 2011 (Journal of Laws No. 227, item 1367), consolidated text Journal of Laws 2022 item 2147.

20. Government Declaration of 13 March 2023 on the entry into force of amendments to Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (Journal of Laws 2023 item 891).

15.2 Chemical safety assessment

The supplier has not carried out a chemical safety assessment. A chemical safety report is not required for the mixture.

SECTION 16: OTHER INFORMATION

16.0 References to key literature and data sources

Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures.

Regulation (EC) No 1907/2006 (REACH), as amended by (EU) 2020/878.

Carriage of dangerous goods by road, rail and inland waterway (ADR/RID/ADN), the International Maritime Dangerous Goods Code (IMDG), and the regulations concerning dangerous goods for air transport (IATA DGR – Dangerous Goods Regulations).

Sheet prepared by: Małgorzata Krenke, MSc

Sheet issued by: "Feed Reach Consulting"

16.1 Classification and procedures used to derive the classification of the mixture in accordance with Regulation (EC) 1272/2008 [CLP]

Classification	H-code	Method/basis
Aerosol 1	H222-H229	2.2.1 CLP
Skin Sens 1	H317	Calculation method
Asp.Tox.4	H304*	Calculation method. Mixtures placed on the market in aerosol form need not be labelled with the Asp. Tox. 1 H304 hazard statement.

16.2 H-statements (indicating the nature of the hazard) used in Sections 2 and 3 of the Safety Data Sheet

Code	Full text
H304	May be fatal if swallowed and enters airways
Asp.Tox.4	Aspiration hazard, Hazard Category 4.
H319	Causes serious eye irritation.
Eye Irrit. 2	Eye irritation, Hazard Category 2
H315	Causes skin irritation.

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Code	Full text
Skin Irrit. 2	Skin irritation, Hazard Category 2
H317	May cause an allergic skin reaction.
Skin Sens. 1	Skin sensitisation, Hazard Category 1
H220	Extremely flammable gas
Flam. Gas 1	Flammable gas, Category 1
H280	Contains gas under pressure; may explode if heated
Press. Gas	Flammable gas, Category 1
H400	Very toxic to aquatic life.
Aquatic Acute 1	Hazardous to the aquatic environment, Hazard Category 1.
H410	Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 1	Hazardous to the aquatic environment, Hazard Category 1.
H412	Harmful to aquatic life with long lasting effects.
Aquatic Chronic 3	Hazardous to the aquatic environment, Exposure Category 3.
H413	May cause long lasting harmful effects to aquatic life.
Aquatic Chronic 4	Hazardous to the aquatic environment – chronic hazard, Hazard Category 4.

16.3 Explanation of abbreviations and acronyms

Abbreviation	Meaning
CEN	European Committee for Standardization
C&L	Classification and Labelling
CLP	Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008
CAS	Chemical Abstracts Service number
COM	European Commission
CMR	Carcinogenic, mutagenic or toxic to reproduction
CSA	Chemical Safety Assessment
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EEC
DSD	Dangerous Substances Directive 67/548/EEC
EC	European Commission
EC50	Median effective concentration
ECB	European Chemicals Bureau
ECHA	European Chemicals Agency
EC	EINECS and ELINCS number (see also EINECS and ELINCS)

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Abbreviation	Meaning
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EN	European Standard
EU	European Union
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IC50	Concentration causing 50 percent inhibition of a given parameter
IUCLID	International Uniform Chemical Information Database
IUPAC	International Union of Pure and Applied Chemistry
LC50	Median lethal concentration
LD50	Median lethal dose
MSDS	Material Safety Data Sheet
PBT	Persistent, bioaccumulative and toxic substance
PEC	Predicted environmental concentration
PNEC(s)	Predicted no-effect concentration(s)
PPE	Personal protective equipment
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
SIEF	Substance Information Exchange Forum
STOT	Specific target organ toxicity
(STOT) RE	Repeated exposure
(STOT) SE	Single exposure
SVHC	Substance of Very High Concern
vPvB	[Substances] very persistent and very bioaccumulative
UN number	Material identification number under the ADR agreement.
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
IMGD	International code for dangerous cargoes
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
MARPOL	International Convention for the Prevention of Pollution from Ships (MARPOL)
EmS	Emergency Schedules for ships carrying dangerous goods
NDS	Maximum permissible concentration at the workplace (TLV-TWA) (OEL-TWA) (PEL-TWA)

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Abbreviation	Meaning
NDSch	Maximum permissible short-term concentration (TLV-STEL)
NDSP	Maximum permissible ceiling concentration (TLV-CL)

16.4 Training

Before starting work with the product, the user should familiarise themselves with occupational health and safety rules for handling chemicals, and in particular undergo appropriate job-specific training. Persons involved in the transport of dangerous goods under the ADR Agreement should receive appropriate training relevant to their duties (general awareness, function-specific and safety training).

The above information is based on currently available data concerning the product, as well as on the manufacturer's experience and knowledge in this field. It does not constitute a description of the product's quality or a guarantee of any specific properties. It should be treated as an aid for safety in the transport, storage and use of the product. It does not release the user from responsibility for improper use of the above information, nor from responsibility for the improper observance of legal standards in this field.

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