

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: 7005 Underbody Bitumen Spray

Creation date: 07.03.2024, Revision: 26.03.2025, Version: 5.0

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

1.1 Product identifier

Product name

7005 Underbody Bitumen Spray

UFI:

2SNF-NCY2-U00W-TGUJ



<https://my.chemius.net/p/bw6MgC/en/pd/en>

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

Relevant identified uses

An agent for protection against corrosion.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

SILCO d.o.o.
Sentrupert 5a
3303 Gomilsko, Slovenia
+386 3 703 3180
msds@silco.si

1.4 Emergency Telephone Number

Emergency

111

Supplier

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Aerosol 1; H222 + H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.

Skin Irrit. 2; H315 Causes skin irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

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Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)



Signal word: DANGER

H222 + H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

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.

P273 Avoid release to the environment.

P302 + P352 + P362 + P364 IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.

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

P501 Dispose of contents/container in accordance with national regulation.

Contains:

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

2.3 Other hazards

PBT/vPvB

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties

The substance is not included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation. The substance is not identified as a substance with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Additional information

No information.

Section 3: Composition/information on ingredients

3.1 Substances

For mixtures see 3.2.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

3.2 Mixtures

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
isobutane	75-28-5 200-857-2 601-004-00-0 01-2119485395-27	25-30	Flam. Gas 1; H220 Press. Gas; H280	/
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	- 920-750-0 - 01-2119473851-33	20-25	Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411 EUH066	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0 927-510-4 - 01-2119475515-33	10-15	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	/
propane	74-98-6 200-827-9 601-003-00-5 01-2119486944-21	10-15	Flam. Gas 1; H220 Press. Gas; H280	/
hydrocarbons, C9, aromatics	64742-95-6 918-668-5 - 01-2119455851-35	1-2.5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411 EUH066	/
propylene carbonate	108-32-7 203-572-1 607-194-00-1	1-2.5	Eye Irrit. 2; H319	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
n- hexa ne	110-54-3 203-777-6 601-037-00-0	0.1-1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361f STOT RE 2; H373 Aquatic Chronic 2; H411	STOT RE 2; H373; C ≥ 5%

Notes for substances

C Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.

In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

P The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes.

Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

U When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:
Press. Gas (Comp.)
Press. Gas (Liq.)
Press. Gas (Ref. Liq.)
Press. Gas (Diss.)
Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

Section 4: First aid measures

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

Following inhalation

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Consult a physician.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

Following ingestion

Do not induce vomiting! Aspiration hazard if swallowed. Can enter lungs and cause damage. If vomiting occurs, the patient should hold the head lower than the hips, because it reduces the possibility of aspiration. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Vapours may cause drowsiness and dizziness.

Following skin contact

Itching, redness, pain.

Following eye contact

Redness, tearing, pain.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area. Aspiration into the lungs causes coughing, shortness of breath and may lead to chemical pneumonia.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. After the product has been ingested vomiting can cause aspiration into the lungs. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use only explosion-proof instruments and equipment. Use spark-proof tools. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

Other information

No information.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

6.4 Reference to other sections

See also sections 8 and 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices - wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8. Avoid exposure - obtain special instructions before using.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances. Keep away from sources of ignition - no smoking.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

No information.

Industrial sector specific solutions

No information.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
n-Hexane (110-54-3)	72	20	/	/	/	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	Value
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Worker	inhalation	long term systemic effects	/	2035 mg/m ³
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Worker	dermal	long term systemic effects	/	773 mg/kg bw/day
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Consumer	inhalation	long term systemic effects	/	608 mg/m ³

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

Name	Type	Exposure route	exp. frequency	Remark	Value
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Consumer	dermal	long term systemic effects	/	699 mg/kg bw/day
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Consumer	oral	long term systemic effects	/	699 mg/kg bw/day

PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Skin protection

Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2022). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

Respiratory protection

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

Physical state	liquid
Shape	No information.
Colour	black
Odour	No information.
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	0 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	Substance/mixture is non-soluble (in water). Does not apply
Viscosity	No information.
Solubility	No information.
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: 7005 Underbody Bitumen Spray

Creation date: 07.03.2024, Revision: 26.03.2025, Version: 5.0

Density	0.958 g/cm ³
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

Weight organic solvents	632 g/l
Solids content	640 g/l 76 %

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

10.5 Incompatible materials

Oxidants.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

Section 11: Toxicological information

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: 7005 Underbody Bitumen Spray

Creation date: 07.03.2024, Revision: 26.03.2025, Version: 5.0

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	oral	LD ₅₀	rat (male/female)	/	> 5840 mg/kg bw	Equivalent to OECD 401	experimental value
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	dermal	LD ₅₀	rat (male/female)	24 h	> 4 ml/kg bw	/	experimental value
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	dermal	LD ₅₀	rat (male/female)	24 h	> 2920 mg/kg bw	/	experimental value
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	inhalation (vapours)	LC ₅₀	rat (male/female)	4 h	> 23.2 mg/l air	Equivalent to OECD 403	experimental value
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	dermal	LD ₅₀	rat	24 h	> 2920 mg/kg	/	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	inhalation (vapors)	LC ₅₀	rat	24 h	> 23300 mg/m ³	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

Name	Exposure route	Type	Species	Time	Value	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	oral	LD ₅₀	rat	/	> 5840 mg/kg	OECD 401	/
hydrocarbons, C9, aromatic s	oral	LD ₅₀	rat	/	3592 mg/kg	/	/
hydrocarbons, C9, aromatic s	dermal	LD ₅₀	rabbit	/	3160 mg/kg	/	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	rabbit	/	Non-irritant.	OECD 404	24, 48, 72 h; experimental value

Additional information

Causes skin and eye irritation.

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	/	rabbit	/	Non-irritant.	/	Single treatment, Experimental value

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	result	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	dermal	Guinea pig (male/female)	/	Non sensitising.	Equivalent to OECD 406	experimental value

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	result	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	in-vitro mutagenicity	Bacteria (S. typhimurium)	/	Negative with metabolic activation, negative without metabolic activation.	/	experimental value
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	in-vivo mutagenicity	mouse (male), bone marrow	/	Negative.	Equivalent to OECD 474	experimental value
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Genotoxicity	/	/	Negative.	/	/

(f) Carcinogenicity

For components

Name	Exposure route	Type	Species	Time	Value	result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	/	/	/	/	/	Not carcinogenic.	/	/

(g) Reproductive toxicity

For components

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

Name	Reproductive toxicity type	Type	Species	Time	Value	result	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Developmental toxicity	NOAEL	rat (foetuses)	10 days	31680 mg/m ³ (air)	No effect	Equivalent to OECD 414	read across
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Maternal toxicity	NOAEL	rat	10 days	3168 mg/m ³ (air)	No effect	Equivalent to OECD 414	read across
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Maternal toxicity	LOAEL	rat	10 days	10560 mg/m ³ (air)	<i>Translation required (211884)</i>	Equivalent to OECD 414	read across
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Effect on fertility	NOAEL	rat (male/female)	13 weeks	31680 mg/m ³ (air)	No effect	Equivalent to OECD 416	6h/day, 5 days/week, read-across

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

Name	Reproductive toxicity type	Type	Species	Time	Value	result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Reproductive toxicity	/	rat	/	/	Negative.	/	/
n-hexane	Reproductive toxicity	-	/	/	/	Suspected of damaging fertility.	/	/

Summary of evaluation of the CMR properties

Suspected of damaging fertility.

(h) STOT-single exposure

No information.

Additional information

May cause drowsiness or dizziness.

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	inhalation (vapours)	NOAEC	rat (male)	13 weeks	/	blood	5800 mg/m ³ air	No effect.	Equivalent to OECD 413	Training required (68%)

Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

For components

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: 7005 Underbody Bitumen Spray

Creation date: 07.03.2024, Revision: 26.03.2025, Version: 5.0

Name	result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	May be fatal if swallowed and enters airways.	/	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Aspiration into the lungs can cause lung damage.	/	/

Additional information

May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

Section 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	LC ₅₀	3 - 10 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	Semi-static system, Fresh water, Experimental value GLP
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC ₅₀	4.6 - 10 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	Static system, Fresh water, Experimental value GLP

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EL ₅₀	10 - 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	Static system, Fresh water, Experimental valid GLP
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	NOELR	10 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	Static system, Fresh water, Experimental valid GLP
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	ErL ₅₀	10 - 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	EbL ₅₀	10 - 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	EL ₅₀	> 13.4 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	NOELR	6.3 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
hydrocarbons, C9, aromatic s	EC ₅₀	3.2 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
hydrocarbons, C9, aromatic s	EC ₅₀	9.2 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C9, aromatic s	EC ₅₀	2.75 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/

Chronic (long-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	NOELR	0.574 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>	/	Fresh water; QSAR; Growth rate
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	NOEC	0.17 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	static, fresh water, experimental value GLP
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	NOELR	1 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	/
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	NOELR	1.53 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>	/	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

Name	Type	Rate	Time	Evaluation	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Biodegradation in water	98 %	28 days	/	OECD 301 F: Manometric Respirometry Test	GLP, read-across
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	biodegradability	98 %	28 days	readily biodegradable	OECD 301F	/

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

For components

Name	Value	Temperature °C	pH	Concentration	Method
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	4 - 5.7	/	/	/	/

Bioconcentration factor (BCF)

No information.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

For components

Name	Air	Water	Soil	Sediment	(Aquatic) Biota	Method	Remark
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	14.6	3.4	26.4	55.6	/	Mackay level 3	Calculated value

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 Results of PBT and vPvB assessment

No evaluation.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

Toxic to aquatic organisms: may cause long-term adverse effects in the aquatic environment.
Do not allow to reach ground water, water courses or sewage system.

For components

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
Ground water pollutant.

Section 13: Disposal considerations

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapours.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

Section 14: Transport information









SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

silco[®]

Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2 UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
14.3 Transport hazard class(es)			
2	2	2	2
			
			
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
YES	Marine pollutant	YES	YES
14.6 Special precautions for user			

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

ADR/RID	IMDG	IATA	ADN
Limited quantities 1 L Special provisions 190, 327, 344, 625 Packing Instructions P207, LP200 Special packing provisions PP87, RR6, L2 Transport category 2 Tunnel restriction code (D) Classification code 5F	Limited quantities 1 L EmS F-D, S-U Flash point 0 °C *For additional information see below	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y203 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 30 kg G Packing Instructions (Pkg Inst) 203 Maximum Net Quantity/Package (Max Net Qty/Pkg) 25 kg Special provisions A145, A167, A802	Limited quantities 1 L
14.7 Maritime transport in bulk according to IMO instruments	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

Additional information (IMDG)

AEROSOLS (hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)

Section 15: Regulatory information

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

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

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

EU limit values and category: B(e) 840 g/l. VOC Content: 640 g/l

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16: Other information

Indication of changes

2.2 Label elements 2.3 Other hazards 3.2 Mixtures 7.2 Conditions for safe storage, including any incompatibilities 8.1 Control parameters 8.2 Exposure controls 9.1 Information on basic physical and chemical properties 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 12.1 Toxicity 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil 14. Transport information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW - see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCILID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
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)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: **7005 Underbody Bitumen Spray**

Creation date: **07.03.2024**, Revision: **26.03.2025**, Version: **5.0**

EUH066 Repeated exposure may cause skin dryness or cracking.