

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: NTSI 9H Car Pro

Creation date: 20.2.2019 · Revision: 21.2.2019 · Version: 1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name

NTSI 9H Car Pro

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

Relevant identified uses

Coating.

Uses advised against

No information.

1.3. Details of the supplier of the safety data sheet

Supplier

HaHaruv St Hevel Modi'in
Industrial park
Israel

Telephone: +972 9 7468066

Telefax: ++972 9 7468065

E-mail: office@ntsi.co.il

Website: www.ntsi.co.il

1.4. Emergency telephone number

Emergency

Telephone: +972 9 7468066

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Flam. Liq. 3; H226 Flammable liquid and vapour.

Acute Tox. 4; H302 Harmful if swallowed.

Skin Corr. 1B; H314 Causes severe skin burns and eye damage.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Eye Dam. 1; H318 Causes serious eye damage.

STOT SE 3; H336 May cause drowsiness or dizziness.

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

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2.2 Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: Danger

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P362 + P364 Take off contaminated clothing and wash it before reuse.

P403 + P235 Store in a well-ventilated place. Keep cool.

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

2.2.2. Contains:

organic polysilazanes (CAS: 475645-84-2)

n-butyl acetate (CAS: 123-86-4, EC: 204-658-1, Index: 607-025-00-1)

3-aminopropyltriethoxysilane (CAS: 919-30-2, EC: 213-048-4, Index: 612-108-00-0)

2.2.3. Special provisions

Special hazards are not known or expected.

2.3. Other hazards

No information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

For mixtures see 3.2.

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3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	REACH Registration No.
organic polysilazanes	475645-84-2 - -	25-<50	Flam. Liq. 2; H225 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	-
n-butyl acetate	123-86-4 204-658-1 607-025-00-1	>30	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	01-2119485493-29
distillates (petroleum), hydrotreated light	64742-47-8 265-149-8 649-422-00-2	<5	Asp. Tox. 1; H304	-
3-aminopropyltriethoxysilane	919-30-2 213-048-4 612-108-00-0	<2,5	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Eye Dam. 1; H318	-

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

When in doubt or if you feel unwell seek medical assistance. Show the Safety data sheet and label to the physician. Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

Following inhalation

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

Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. Immediately obtain professional medical help!

Following eye contact

If the patient is wearing contact lenses, remove them immediately. Immediately flush eyes with running water, keeping eyelids apart. Consult a physician immediately!

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Immediately consult a doctor. Show the physician the Safety Data Sheet or label. Never give anything by mouth to an unconscious person.

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

Inhalation

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

Skin contact

Skin burns: Signs/symptoms may include localised redness, swelling, itching, dryness, blistering.
May cause sensitisation by skin contact (itching, redness, rashes).

Eye contact

Redness, pain, burning sensation, tearing, can cause permanent damage to the eyes.

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Ingestion

May cause abdominal discomfort.

May cause nausea/vomiting and diarrhea.

Harmful to health.

If ingested, may cause burns of the mouth and throat, as well as perforation of the esophagus and stomach.

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

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam.

Carbon dioxide (CO₂).

Fire extinguishing powder.

Unsuitable extinguishing media

Water;

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.

5.3. Advice for firefighters

Protective actions

Prolonged heating can cause an explosion. Vapours are heavier than air and spread along floor. Vapours may form explosive mixtures with the air. Vapours can travel to a source of ignition and flash back. In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area. Prevent spillage of extinguishing agents into sewers and water courses.

Special protective equipment for fire-fighters

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

Additional information

Contaminated extinguishing agents must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Emergency procedures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Prevent access to unprotected personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing. Do not use open fire and keep away all sources of ignition.

6.1.2. For emergency responders

Use personal protective equipment.

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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

6.3.1. For containment

Stem the spill if this does not pose risks.

6.3.2. For cleaning up

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

6.3.3. Other information

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6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation. Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Use spark-proof tools. Vapours are heavier than air and spread along floor. Vapours 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.

7.1.2. Advice on general occupational hygiene

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

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. 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. Store below +25°C. Keep away from strong oxidizing agents.

7.2.2. Packaging materials

Store only in original container.

7.2.3. Requirements for storage rooms and vessels

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

7.2.4. Storage class

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7.2.5. Further information on storage conditions

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7.3. Specific end use(s)

Recommendations

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Industrial sector specific solutions

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational Exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m ³ (ppm)	mg/m ³	ml/m ³ (ppm)	mg/m ³		
Butyl acetate (123-86-4)	150	724	200	966		

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

8.1.3. DNEL/DMEL values

For components

Name	Type	Exposure route	exp. frequency	Value	Remark
n-butyl acetate (123-86-4)	Worker	inhalation	long term (systemic effects)	300 mg/m ³	
n-butyl acetate (123-86-4)	Worker	inhalation	short term (systemic effects)	600 mg/m ³	
n-butyl acetate (123-86-4)	Worker	inhalation	long term (local effects)	300 mg/m ³	
n-butyl acetate (123-86-4)	Worker	inhalation	short term (local effects)	600 mg/m ³	
n-butyl acetate (123-86-4)	Worker	dermal	long term (systemic effects)	11 mg/kg bw/day	
n-butyl acetate (123-86-4)	Worker	dermal	short term (systemic effects)	11 mg/kg bw/day	
n-butyl acetate (123-86-4)	Consumer	inhalation	long term (systemic effects)	35,7 mg/m ³	
n-butyl acetate (123-86-4)	Consumer	inhalation	short term (systemic effects)	300 mg/m ³	
n-butyl acetate (123-86-4)	Consumer	inhalation	long term (local effects)	35,7 mg/m ³	
n-butyl acetate (123-86-4)	Consumer	inhalation	short term (local effects)	300 mg/m ³	
n-butyl acetate (123-86-4)	Consumer	dermal	long term (systemic effects)	6 mg/kg bw/day	
n-butyl acetate (123-86-4)	Consumer	dermal	short term (systemic effects)	6 mg/kg bw/day	
n-butyl acetate (123-86-4)	Consumer	oral	long term (systemic effects)	2 mg/kg bw/day	
n-butyl acetate (123-86-4)	Consumer	oral	short term (systemic effects)	2 mg/kg bw/day	

8.1.4. PNEC values

For components

Name	Exposure route	Value	Remark
n-butyl acetate (123-86-4)	fresh water	0,18 mg/L	
n-butyl acetate (123-86-4)	water, intermittent release	0,36 mg/L	fresh water
n-butyl acetate (123-86-4)	marine water	0,0018 mg/L	
n-butyl acetate (123-86-4)	water treatment plant	35,6 mg/L	
n-butyl acetate (123-86-4)	fresh water sediment	0,981 mg/kg	dry weight
n-butyl acetate (123-86-4)	marine water sediment	0,098 mg/kg	dry weight
n-butyl acetate (123-86-4)	soil	0,09 mg/kg	dry weight

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8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Do not breathe vapours/aerosols. 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. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Keep eyewash bottles or personal eyewash units and emergency showers available.

Technical measures to prevent exposure

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

8.2.2. Personal protective equipment

Eye and face protection

Wear tight fitting protective goggles and/or face protection (EN 166).

Hand protection

Protective gloves (EN 374). The penetration time is determined by the protective glove manufacturer and must be observed. 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.

Skin protection

Protective work clothing resistant to liquid chemicals (EN 14605).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. In case of insufficient ventilation wear mask with filter ABEK (EN 14387). 'High/elevated concentrations' means that the occupational exposure limit values have been exceeded. 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 EN 137, EN 138.

Thermal hazards

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8.2.3. Environmental exposure controls

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

-	Physical state:	liquid
-	Colour:	according to specification
-	Odour:	characteristic

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Important health, safety and environmental information

- pH	No information.
- Melting point/Freezing point	No information.
- Initial boiling point/boiling range	No information.
- Flash point	23 °C
- Evaporation rate	No information.
- Flammability (solid, gas)	No information.
- Explosion limits (vol%)	No information.
- Vapour pressure	No information.
- Vapour density	No information.
- Density	No information.
- Solubility	No information.
- Partition coefficient	No information.
- Auto-ignition temperature	No information.
- Decomposition temperature	No information.
- Viscosity	No information.
- Explosive properties	No information.
- Oxidising properties	No information.

9.2. Other information

- Remarks:	
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SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended transport or storage conditions. Vapours may form explosive mixture with air.

10.2. Chemical stability

Product is stable under normal conditions according of handling and storage.

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.
Alcohols.
Amines. Moisture.
Strong acids.
Strong bases. Halogenated compounds.

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. Carbon dioxide; Carbon monoxide.
Ammonia; Formaldehyde.

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
organic polysilazanes (475645-84-2)	oral	LD ₅₀	rat		300 – 2000 mg/kg	OECD 423	
distillates (petroleum), hydrotreated light (64742-47-8)	inhalation	LC ₅₀	rat	8 h	> 5000 mg/m ³	Equivalent to OECD 403	Test conducted with a similar substance.
distillates (petroleum), hydrotreated light (64742-47-8)	oral	LD ₅₀	rat		> 5000 mg/kg	Equivalent to OECD 401	Test conducted with a similar substance.
distillates (petroleum), hydrotreated light (64742-47-8)	dermal	LD ₅₀	rabbit		> 5000 mg/kg	Equivalent OECD 402	Test conducted with a similar substance.
3-aminopropyltriethoxysilane (919-30-2)	inhalation	LC ₅₀	rat	4 h	23,4 mg/l		
3-aminopropyltriethoxysilane (919-30-2)	oral	LD ₅₀	rat		10760 mg/kg		
3-aminopropyltriethoxysilane (919-30-2)	dermal	LD ₅₀	rabbit		> 14112 mg/kg		

Additional information: Harmful if swallowed.

(b) Skin corrosion/irritation

Name	Species	Time	result	Method	Remark
organic polysilazanes (475645-84-2)	rabbit		Corrosive	OECD 404	
distillates (petroleum), hydrotreated light (64742-47-8)			Mild irritating.	Equivalent to OECD 404	Test conducted with a similar substance.

Additional information: Corrosive.

(c) Serious eye damage/irritation

Name	Species	Time	result	Method	Remark
distillates (petroleum), hydrotreated light (64742-47-8)			Mild irritating.	Equivalent to OECD 405	Test conducted with a similar substance.

Additional information: Causes serious eye damage.

(d) Respiratory or skin sensitisation

Name	Exposure route	Species	Time	result	Method	Remark
distillates (petroleum), hydrotreated light (64742-47-8)	dermal			Negative.	Equivalent to OECD 406	Test conducted with a similar substance.

Additional information: May cause an allergic skin reaction.

(e) (Germ cell) mutagenicity

Name	Type	Species	Time	result	Method	Remark
organic polysilazanes (475645-84-2)				Negative	Ames test	
distillates (petroleum), hydrotreated light(64742-47-8)				Negative	Equivalent OECD 471, 473, 474, 476, 478, 479	

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(f) Carcinogenicity

Name	Exposure route	Type	Species	Time	Value	result	Method	Remark
distillates (petroleum), hydrotreated light (64742-47-8)						negative	Equivalent to OECD 453	

(g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	result	Method	Remark
distillates (petroleum), hydrotreated light (64742-47-8)								

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

Additional information: May cause drowsiness or dizziness.

(i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	organ	Value	result	Method	Remark
distillates (petroleum), hydrotreated light (64742-47-8)	-	-					Negative	Equivalent OECD 408, 413, 422	

Additional information: STOT RE (repeated exposure): not classified.

(j) Aspiration hazard

Additional information: Aspiration hazard: Not Classified.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
organic polysilazanes (475645-84-2)	LC ₅₀	57,1 mg/L	96 h	fish	<i>Brachydanio rerio</i>	OECD 203	
n-butyl acetate (123-86-4)	LC ₅₀	18 mg/L	96 h	fish			
	EC ₅₀	44 mg/L	48 h	aquatic invertebrates			
	ErC ₅₀	674,7 mg/L	72 h	algae			
distillates (petroleum), hydrotreated light (64742-47-8)	EC ₀	1000 mg/L	48 h	crustaceans	<i>Daphnia magna</i>		
	LC ₀	1000 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		
	EC ₀	1000 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>		

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12.1.2. Chronic (long-term) toxicity

No information.

12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

12.2.2. Biodegradation

For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
n-butyl acetate (123-86-4)	Biodegradability	83 %	28 days			
n-butyl acetate (123-86-4)	aerobic	80 %	5 days			Oxygen consumption
distillates (petroleum), hydrotreated light (64742-47-8)	biodegradability	80 %	28 days	readily biodegradable		

12.3. Bioaccumulative potential

12.3.1. Partition coefficient

For components

Substance (CAS Nr.)	Media	Value	Temperature	pH	Concentration	Method
n-butyl acetate (123-86-4)	log Kow	2,3	25 °C			

12.3.2. Bioconcentration factor (BCF)

No information.

12.4. Mobility in soil

12.4.1. Known or predicted distribution to environmental compartments

No information.

12.4.2. Surface tension

No information.

12.4.3. Adsorption/Desorption

For components

Substance (CAS Nr.)	Type	Criterion	Value	Evaluation	Method	Remark
n-butyl acetate (123-86-4)	Water	Henry constant (H)	41,6 Pa.m ³ / mol			25 °C
n-butyl acetate (123-86-4)	Water		1,269 – 1,845			Koc

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information.

12.7. Additional information

For product

Harmful 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.

Water hazard class 2 (Self-assessment): hazardous for water.

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorized collector/remover/transformer of hazardous waste. Do not allow product to reach drains/sewage systems.

Packaging

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

13.1.2. Waste treatment-relevant information

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13.1.3. Sewage disposal-relevant information

-

13.1.4. Other disposal recommendations

-

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

UN 2920

14.2. UN proper shipping name

CORROSIVE LIQUID, FLAMMABLE, N.O.S. (3-aminopropyltriethoxysilane, organic polysilazane)

14.3. Transport hazard class(es)

8

14.4. Packing group

II

14.5. Environmental hazards

NO

14.6. Special precautions for user

Limited quantities

1 L

Tunnel restriction code

(D/E)

IMDG flashpoint

23 °C, c.c.

IMDG EmS

F-E, S-C



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

Goods may not be carried in bulk in bulk containers, containers or vehicles.

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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) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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

not applicable

15.1.2. Special instructions

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

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Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
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
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology

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IUCLID - 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

Key literature references and sources for data

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List of relevant H phrases

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.