

SAFETY DATA SHEET

SENCO SPRAY LUBRIFIANT PNEUM

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

1.1. Product identifier

Trade name

SENCO SPRAY LUBRIFIANT PNEUM

Unique formula identifier (UFI)

XMHE-VE1H-500C-AP55

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

Relevant identified uses of the substance or mixture

Lubricant

EuPCS

PC-TEC-11 / Lubricants, greases, release agents

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

KYOCERA FASTENING SOLUTIONS EMEA

Pascallaan 88

8218 NJ

31320295575

www.senco.eu

E-mail

info@kyocera-senco.eu

Revision

29/07/2024

SDS Version

2.0

1.4. Emergency telephone number

The National Poisons Information Centre (NPIC)

Public: +353 (0) 1 809 2166 (7 days a week, 8am- 10pm)

Healthcare professionals: +353 (0) 1 809 2566 (24 h service)

See also section 4 "First aid measures"

SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

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

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.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Extremely flammable aerosol. Pressurised container: May burst if heated. (H222, H229)

Causes skin irritation. (H315)

May cause drowsiness or dizziness. (H336)

Toxic to aquatic life with long lasting effects. (H411)

Precautionary statement(s)

General

Keep out of reach of children. (P102)

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Do not spray on an open flame or other ignition source. (P211)

Do not pierce or burn, even after use. (P251)

Response

-

Storage

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

Disposal

Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Additional labelling

UFI: XMHE-VE1H-500C-AP55

2.3. Other hazards

Additional warnings

In the event of leaks, high concentrations of gases can quickly form. They can be toxic, asphyxiating, or explosive.

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Hydrocarbons, C6, isoalkanes, <5% n-hexane &// Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane &// Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane &// Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	CAS No.: EC No.: 931-254-9 / 921-024-6 / 926-605-8 / 927-510-4 REACH: 01-2119484651-34- / 01-2119475514-35- / 01-2119486291-36- / 01-2119475515-33- Index No.:	25 - 50%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
Isopentane	CAS No.: 78-78-4 EC No.: 201-142-8 REACH: 01-2119475602-38- Index No.: 601-085-00-2	< 1%	EUH066 Flam. Liq. 1, H224 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411	[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

Treat symptomatically.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurised container. In a fire or if heated, a pressure increase will occur and the container may burst.

In use may form flammable/explosive vapour-air mixture.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the National Poisons Information Centre (NPIC) on +353 (0) 1 809 256 (24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Accidental releases always pose a serious risk of fire or explosion.

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Recommended storage material

Always store in containers of the same material as the original container.

Storage conditions

< 50°C

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Isopentane

Long term exposure limit (8 hours) (mg/m³): 3000

Long term exposure limit (8 hours) (ppm): 1000

2024 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens, Mutagens and Reprotoxic Substances) Regulations (2024).

DNEL

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	13,964 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	5,306 mg/m ³

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	13964 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	5306 mg/m ³

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	149 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	300 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	477 mg/m ³
Long term – Systemic effects - Workers	Inhalation	2085 mg/m ³
Long term – Systemic effects - General population	Oral	149 mg/kg bw/day

Isopentane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	432 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	3000 mg/m ³

PNEC

No data available.

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

Hygiene measures

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure


Provide adequate general and local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.


Respiratory Equipment

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				
Combination filter AXP2		Brown/White	EN14387, EN143	


Skin protection

Recommended	Type/Category	Standards
No special when used as intended.	-	-

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388	

Eye protection

Type	Standards	
Use safety glasses if exposure is likely	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Aerosol

Colour

Colourless

Odour / Odour threshold

Hydrocarbon

pH

Not applicable - pH is not defined for non-aqueous systems

Density (g/cm³)

Not applicable - product is an aerosol

Relative density

Not applicable - product is an aerosol

Kinematic viscosity

Not applicable - product is an aerosol

Particle characteristics

Not applicable - product is an aerosol

Phase changes

Melting point/Freezing point (°C)

No data available

Softening point/range (°C)

Does not apply to aerosols.

Boiling point (°C)

No data available

Vapour pressure

No data available

Relative vapour density

Not applicable - product is an aerosol

Decomposition temperature (°C)

No data available

Data on fire and explosion hazards

Flash point (°C)

< 0

Flammability (°C)

The material is ignitable.

Auto-ignition temperature (°C)

Not applicable - product is an aerosol

Lower and upper explosion limit (% v/v)

No data available

Solubility

Solubility in water

No data available

n-octanol/water coefficient (LogKow)

No data available

Solubility in fat (g/L)

No data available

9.2. Other information

Other physical and chemical parameters

No data available.

Oxidizing properties

Testing not relevant or not possible due to the nature of the product.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid static electricity.

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance	Hydrocarbons, C6, isoalkanes, <5% n-hexane
Test method:	OECD 403
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	> 20 mg/L

Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane OECD 403 Rat, male Inhalation LC50 259,354 mg/m ³
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane OECD 401 Rat, male Oral LD50 16,750 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane OECD 402 Rabbit, male Dermal LD50 3,350 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics OECD 401 Rat Oral LD50 > 5840 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics OECD 403 Rat Inhalation LC50 > 23,3 mg/l
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics OECD 402 Rat Dermal LD50 > 2920 mg/kg
Product/substance Species: Route of exposure: Test: Result:	Isopentane Rat Oral LD50 > 2000 mg/kg
Product/substance Species: Route of exposure: Test: Result:	Isopentane Rat Inhalation LC50 (4 hours) > 25,3 mg/L

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

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

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance: Hydrocarbons, C6, isoalkanes, <5% n-hexane
 Test method: QSAR
 Species: Algae, Pseudokirchneriella subcapitata
 Duration: 72 hours
 Test: EL50
 Result: 13.56 mg/L

Product/substance: Hydrocarbons, C6, isoalkanes, <5% n-hexane
 Test method: QSAR
 Species: Algae, Pseudokirchneriella subcapitata
 Duration: 72 hours
 Test: NOELR
 Result: 30 mg/L

Product/substance: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
 Test method: OECD 203
 Species: Fish, Oncorhynchus mykiss
 Duration: 96 hours
 Test: LL50
 Result: 12 mg/L

Product/substance: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
 Test method: QSAR
 Species: Algae, Pseudokirchneriella subcapitata
 Duration: 72 hours
 Test: EL50
 Result: 7,276 mg/L

Product/substance: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
 Test method: QSAR
 Species: Daphnia, Daphnia magna
 Duration: 48 hours
 Test: EL50
 Result: 17,06 mg/L

Product/substance: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
 Test method: QSAR
 Species: Algae, Pseudokirchneriella subcapitata
 Duration: 72 hours
 Test: EL50
 Result: 7,276 mg/L

Product/substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Species: Fish, Oncorhynchus mykiss
 Duration: 96 hours
 Test: LL50

Result: 13,4 mg/l

Product/substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Species: Algae, Pseudokirchneriella subcapitata
 Duration: 72 hours
 Test: NOELR
 Result: 10 mg/l

Product/substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Species: Algae, Pseudokirchneriella subcapitata
 Duration: 72 hours
 Test: EL50
 Result: 10 - 30 mg/l

Product/substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Species: Crustacean, Daphnia magna
 Duration: 48 hours
 Test: EL50
 Result: 3 mg/l

Product/substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Species: Crustacean, Daphnia magna
 Duration: 21 days
 Test: NOEC
 Result: 0,17 mg/l

Product/substance: Isopentane
 Species: Algae
 Duration: 96 hours
 Test: EC50
 Result: 5,2 mg/L

Product/substance: Isopentane
 Species: Fish
 Duration: 96 hours
 Test: LC50
 Result: 12,8 mg/L

Product/substance: Isopentane
 Species: Fish
 Duration: 96 hours
 Test: LL50
 Result: 34,05 mg/L

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Product/substance: Hydrocarbons, C6, isoalkanes, <5% n-hexane
 Duration: 28 days
 Result: 81 %
 Conclusion: -
 Test: OECD 301 F

Product/substance: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
 Duration: 28 days
 Result: 81 %
 Conclusion: Readily biodegradable
 Test: OECD 301 F

Product/substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Duration: 28 days
 Result: 98 %
 Conclusion: Readily biodegradable

12.3. Bioaccumulative potential

Product/substance: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
 BCF: 38.5 - 552
 LogKow: 4 - 5.1
 Conclusion: -

Product/substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Conclusion: Potential for bioaccumulation

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 3 - Flammable

HP 4 - Irritant (skin irritation and eye damage)

HP 14 - Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.






EWC code

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.1 Classification code: 5F  	-	Yes	Limited quantities: 1 L Tunnel restriction code: (D) See below for additional information.
IMDG	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.1 Classification code: 5F  	-	Yes	Limited quantities: 1 L EmS: F-D S-U See below for additional information.
IATA	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.1 Classification code: 5F 	-	Yes	See below for additional information.

14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
					

* Packing group

** Environmental hazards

Additional information

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

P3a - FLAMMABLE AEROSOLS, Qualifying quantity (lower-tier): 150 tonnes (net) / (upper-tier): 500 tonnes (net)

E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes

REACH, Annex XVII

Hydrocarbons, C6, isoalkanes, <5% n-hexane &// Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane &// Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane &// Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics is subject to REACH restrictions (entry 40).

Isopentane is subject to REACH restrictions (entry 40).

Additional information

Not applicable.

Sources

S.I. No. 144/1977 The European Communities (Aerosol Dispensers) Regulations, 1977 with amendments S.I. No.72/2014 and S.I. No.567/2017

SI No 209 of 2015 Chemicals Act (Control of Major Accident Hazards involving Dangerous Substances) Regulations 2015.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

EUH066, Repeated exposure may cause skin dryness or cracking.

H224, Extremely flammable liquid and vapour.

H225, Highly flammable liquid and vapour.

H304, May be fatal if swallowed and enters airways.

H315, Causes skin irritation.

H336, May cause drowsiness or dizziness.

H411, Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP). The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP). The classification of the mixture in regard to physical hazards has been based on the flammability classification procedure given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

KYOCERA FASTENING SOLUTIONS EMEA

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: IE-en