

SAFETY DATA SHEET

Parting lubricant, FG 785



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

1.1 Product identifier

Product name : Parting lubricant, FG 785
Cat. No. : 10162906, 16080824
Container size : 5 ml
Product type : Solid.
Other means of identification : Not available.

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

Product use : Lubricants
Area of application : Professional applications.

Uses advised against

None identified.

1.3 Details of the supplier of the safety data sheet

Struers ApS
Pederstrupvej 84
DK-2750 Ballerup

Telephone: +45 44 600 800

e-mail address of person responsible for this SDS : struers@struers.dk

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : 2122 4071

Supplier

Telephone number : +45 44 600 800 (Only during office hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity : 14 percent of the mixture consists of component(s) of unknown acute oral toxicity
14 percent of the mixture consists of component(s) of unknown acute dermal toxicity
20.8 percent of the mixture consists of component(s) of unknown acute inhalation toxicity



SECTION 2: Hazards identification

Ingredients of unknown ecotoxicity : Contains 16.5% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H319 - Causes serious eye irritation.

Precautionary statements

Prevention

: P280 - Wear eye or face protection.

Response

: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage

: Not applicable.

Disposal

: Not applicable.

Supplemental label elements

: Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts and Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction.
Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.



SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Paraffin oils (petroleum), catalytic dewaxed heavy	REACH #: <1 tonne EC: 265-174-4 CAS: 64742-70-7	≥10 - ≤25	Not classified.	-	[2]
tetrasodium pyrophosphate	REACH #: <1 tonne EC: 231-767-1 CAS: 7722-88-5	≤3	Acute Tox. 4, H302 Eye Dam. 1, H318	ATE [Oral] = 1624 mg/kg	[1]
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	REACH #: <1 tonne EC: 271-529-4 CAS: 68584-23-6	≤3	Skin Sens. 1B, H317	Skin Sens. 1, H317: C ≥ 10%	[1]
Sulfonic acids, petroleum, calcium salts	REACH #: <1 tonne EC: 263-093-9 CAS: 61789-86-4	≤3	Skin Sens. 1B, H317	Skin Sens. 1, H317: C ≥ 10%	[1]
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	REACH #: <1 tonne EC: 270-128-1 CAS: 68411-46-1	<3	Repr. 2, H361f Aquatic Chronic 3, H412	-	[1]
calcium dodecylbenzenesulphonate	REACH #: <1 tonne EC: 247-557-8 CAS: 26264-06-2	≤3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 4, H413 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1300 mg/kg	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of



SECTION 4: First aid measures

- decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : 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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : No specific fire or explosion hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides
metal oxide/oxides

SECTION 5: Firefighting measures

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Small spill** : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Absorb spill with inert material (e.g. dry sand or earth) and place in a chemical waste container.
- Large spill** : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

SECTION 7: Handling and storage

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Not available.
Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

None known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following:
 European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
tetrasodium pyrophosphate	DNEL	Long term Inhalation	4.35 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	17.63 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	0.513 mg/cm ²	General population	Local
	DNEL	Long term Oral	0.8333 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.03 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	1.667 mg/kg bw/day	General population	Systemic
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	DNEL	Long term Inhalation	2.9 mg/m ³	General population	Systemic

SECTION 8: Exposure controls/personal protection

Sulfonic acids, petroleum, calcium salts	DNEL	Long term Dermal	3.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	11.75 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	0.513 mg/cm ²	General population	Local
	DNEL	Long term Oral	0.8333 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.03 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	1.667 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.9 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	3.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	11.75 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	0.04 mg/kg bw/day	General population	Systemic
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	DNEL	Long term Dermal	0.04 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.08 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.14 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	0.6 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	4.37 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	0.62 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	0.787 mg/cm ²	General population	Local
	DNEL	Long term Dermal	0.787 mg/cm ²	General population	Local
	DNEL	Short term Dermal	1.57 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	1.57 mg/cm ²	Workers	Local
calcium dodecylbenzenesulphonate	DNEL	Short term Oral	13 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	13 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	26 mg/m ³	General population	Local
	DNEL	Long term Inhalation	26 mg/m ³	General population	Local
	DNEL	Short term Inhalation	26 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	26 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	28.6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	52 mg/m ³	Workers	Local
	DNEL	Short term Inhalation			



SECTION 8: Exposure controls/personal protection

	DNEL	Long term Inhalation	52 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	52 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	52 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	57.2 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	80 mg/kg bw/day	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Fresh water	0.051 mg/l	-
	Fresh water sediment	9320 mg/kg	-
	Marine water	0.0051 mg/l	-
	Marine water sediment	932 mg/kg	-
	Sewage Treatment Plant	1 mg/l	-
	Soil	1860 mg/kg	-

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Recommended: Nitrile gloves./Neoprene gloves.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Solid. [semi-solid]

Colour : Off-white.

Odour : Petroleum. [Slight]

Odour threshold : Not available.

pH : Not available.

Melting point/freezing point : Not applicable.

Initial boiling point and boiling range : Not applicable.

Flammability : Not available.

Lower and upper explosion limit : Not applicable.

Flash point : Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Solubility(ies) :	Media	Result
	water	Not soluble

Solubility in water : Not available.

Miscible with water : No.

Partition coefficient: n-octanol/ water : Not applicable.

Vapour pressure : Not available.

Evaporation rate : <1 (butyl acetate = 1)

Relative density : 1.32

Density : 1.32 g/cm³

Vapour density : >1 [Air = 1]

Explosive properties : Not available.

Oxidising properties : Not available.

Particle characteristics

Median particle size : Not available.

Parting lubricant, FG 785

SECTION 9: Physical and chemical properties

9.2 Other information

Physical/chemical properties comments : No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Under normal conditions of storage and use, hazardous polymerisation will not occur.

10.4 Conditions to avoid : heat, sparks, open flames and hot surfaces

10.5 Incompatible materials : Reactive or incompatible with the following materials: oxidising materials, reducing materials, acids and alkalis.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
tetrasodium pyrophosphate	LD50 Dermal	Rabbit	7940 mg/kg	-
	LD50 Oral	Rat - Female	1624 mg/kg	-
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	LC50 Inhalation Dusts and mists	Rat - Male, Female	>1.9 mg/l read-across	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Sulfonic acids, petroleum, calcium salts	LC50 Inhalation Dusts and mists	Rat - Male, Female	>1.9 mg/l	4 hours
	LD50 Dermal	Rabbit	>4000 mg/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
	LD50 Dermal	Rabbit	>4199 mg/kg	-
calcium dodecylbenzenesulphonate	LD50 Oral	Rat	>2000 mg/kg	-
	LD50 Dermal	Rabbit	>4199 mg/kg	-
	LD50 Oral	Rat	read-across 1300 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates



Parting lubricant, FG 785

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Parting lubricant, FG 785	28833.3	N/A	N/A	N/A	N/A
tetrasodium pyrophosphate	1624	7940	N/A	N/A	N/A
calcium dodecylbenzenesulphonate	1300	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
tetrasodium pyrophosphate	Eyes - Severe irritant	Rabbit	-	-	-
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Eyes - Not irritant	Rabbit	-	-	-
	Skin - Not irritant	Rabbit	-	(similar material)	-
Sulfonic acids, petroleum, calcium salts	Eyes - Not irritant	Rabbit	-	-	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Eyes - Not irritant	Rabbit	-	-	-
	Skin - Not irritant	Rabbit	-	-	-
calcium dodecylbenzenesulphonate	Eyes - Severe irritant	Rabbit	-	(similar material)	-
	Skin - Irritant	Rabbit	-	-	-

Conclusion/Summary : Not available.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met. (similar material)

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	-	Experiment: In vitro Subject: Mammalian-Animal	Negative
Sulfonic acids, petroleum, calcium salts	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
Benzenamine, N-phenyl-, reaction products with	-	Experiment: In vitro Subject: Bacteria	Negative

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SECTION 11: Toxicological information

2,4,4-trimethylpentene calcium dodecylbenzenesulphonate	-	Experiment: In vitro Subject: Bacteria	Negative
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Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : The mineral oils in the product contain < 3% DMSO extract (IP 346).
Contains titanium dioxide (TiO₂) classified by IARC as a possibly carcinogenic to humans (Group 2B).
Titanium dioxide: Percentage of particles with aerodynamic diameter ≤ 10 µm: <1%
Unlikely to become airborne. Therefore, titanium dioxide in this material does not present a hazard in normal handling, processing use, and disposal.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Negative	Negative	Negative	Rat - Male, Female	Oral: ≥500 mg/kg NOAEL (similar material)	28 days
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene calcium dodecylbenzenesulphonate	-	Positive	-	Rat - Male, Female	Oral	-
	Negative	-	Negative	Rat - Male, Female	Oral: 300 mg/kg NOAEL (similar material)	20 days

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

SECTION 11: Toxicological information

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts calcium dodecylbenzenesulphonate	Sub-chronic NOAEL Oral	Rat - Male, Female	500 mg/kg (similar material)	-
	Sub-chronic LOAEL Oral	Rat - Male, Female	115 mg/kg	180 days
	Sub-chronic LOAEL Oral	Rat - Male, Female	250 mg/kg	30 days

Conclusion/Summary	: Based on available data, the classification criteria are not met. Unlikely to become airborne. Therefore, titanium dioxide in this material does not present a hazard in normal handling, processing use, and disposal.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.



SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
tetrasodium pyrophosphate	Acute EC50 >100 mg/l Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	Acute LC50 391000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 1380 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours
	Acute NOEC >100 mg/l Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	Acute NOEC 100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	96 hours
	Acute NOEC 100 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
Sulfonic acids, petroleum, calcium salts	Acute EC50 >1000 mg/l Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i>	72 hours
	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >10000 mg/l	Fish	96 hours
	Acute NOEC 1000 mg/l Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i>	72 hours
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Acute EC50 51 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
calcium dodecylbenzenesulphonate	Acute EC50 >71 mg/l	Fish	96 hours
	Acute LC50 22 mg/l (similar material)	Fish	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	-	-	Not readily
Sulfonic acids, petroleum, calcium salts	-	-	Not readily
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	-	-	Not readily
calcium dodecylbenzenesulphonate	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5.1	1730	High
calcium dodecylbenzenesulphonate	3.9 to 6	104	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.



SECTION 12: Ecological information

Mobility : Semi-solid, insoluble in water.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.



SECTION 14: Transport information

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

Other EU regulations

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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SECTION 15: Regulatory information

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Key literature references and sources for data : Regulation (EC) No. 1272/2008 [CLP]; European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), concluded in Geneva on 30 September 1957 plus amendments (Uniform text: Journal of Laws 27/2009 pos. 162 plus amendments); European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN); Occupational exposure limits; International regulations

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Eye Irrit. 2, H319	Expert judgment

Full text of abbreviated H statements

H302 H315 H317 H318 H319 H361f H412 H413	Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Suspected of damaging fertility. Harmful to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life.
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Full text of classifications [CLP/GHS]

Acute Tox. 4 Aquatic Chronic 3 Aquatic Chronic 4 Eye Dam. 1 Eye Irrit. 2 Repr. 2 Skin Irrit. 2 Skin Sens. 1B	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1B
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Training advice : Ensure operatives are trained to minimise exposures. Training staff on good practice.

Date of issue/ Date of revision : 05/09/2023

Date of previous issue : No previous validation

Version : 1

Notice to reader

Date of issue/Date of revision : 05/09/2023 **Date of previous issue** : No previous validation **Version** : 1 17/18



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SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

