

SAFETY DATA SHEET



Product name:	DARK GREY PAINT	Page:	1/12
Revision Date:	2013-11-25	Print date:	2013-11-25
Document No.:	M0140	SDS-ID:	US-EN/12.0

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

Product identifier

Product name: DARK GREY PAINT
Cat. No. 368MP098

Container size: 500 ml

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

Application: Paint.

Details of the supplier of the safety data sheet

Supplier: Struers A/S
Pederstrupvej 84
DK-2750 Ballerup
Tel:+45 44 600 800

Responsible for material safety data sheet authoring: Responsible for material safety data sheet authoring: DHI
Any questions to the contents of this material safety data sheet should be sent to:
Lisbeth.Mygind@struers.dk

Emergency telephone number

Emergency telephone: Infotrac:
1-800-535-5053
Struers US:
1-440-871-0071

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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

The product is classified: R10 Xn;R20/21 Xi;R38 R52/53

Physical and Chemical The product is flammable.

Hazards:

Human health: Harmful by inhalation and in contact with skin. Irritating to skin. Splashes in the eyes may cause redness and irritation.

Environment: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements



Harmful

Contains: Xylene

R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin.

R38 Irritating to skin.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S24 Avoid contact with skin.

S35 This material and its container must be disposed of in a safe way.

S36/37 Wear suitable protective clothing and gloves.

S51 Use only in well-ventilated areas.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

NFPA Rating: Health:2 Fire:3 Reactivity:0 Other:-

Other hazards

PBT/vPvB: Not relevant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

The product contains: organic solvents, binders and additives .

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67/548/EEC:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
<0,25	68308-64-5	269-662-8	-	Quaternary ammonium compounds, coco alkylethylidimethyl, Et sulfates	C;R34 Xn;R22 Xi;R38 N;R50	
<1	108-94-1	203-631-1	-	Cyclohexanone	R10 Xn;R20	
10-25	1330-20-7	215-535-7	-	Xylene	R10 Xn;R20/21 Xi;R38	C
<1	67-63-0	200-661-7	01-2119457558-25-xxxx	Propan-2-ol	F;R11 Xi;R36 R67	
2,5-5	64742-82-1	265-185-4	-	Naphtha (petroleum), hydrodesulfurized heavy	R10 Xn;R65-48/20 R66 R67 N;R51-53	P
<0,25	64742-95-6	265-199-0	-	Solvent naphtha (petroleum), light arom.	R10 Xn;R65 Xi;R37 R66 R67 N;R51-53	H; P
<0,25	64742-94-5	265-198-5	-	Solvent naphtha (petroleum), heavy arom.; Kerosine-unspecified	Xn;R65 R66 R67 N;R51-53	J
<0,25	123-86-4	204-658-1	-	n-Butyl acetate	R10 R66 R67	
<0,25	108-65-6	203-603-9	-	2-Methoxy-1-methylethyl acetate	R10	
2,5-5	100-41-4	202-849-4	-	Ethylbenzene	F;R11 Xn;R20	
<0,25	64742-48-9	265-150-3	-	Naphtha (petroleum), hydrotreated heavy	R10 Xn;R65 R66	P
<0,25	57-55-6	200-338-0	-	Propylene glycol	-	
<0,25	61791-55-7	263-189-0	-	Amines, N-tallow alkyltrimethylenedi-	C;R34 Xn;R22 N;R50-53	
1-2,5	7429-90-5	231-072-3	-	Aluminium powder (pyrophoric)	F;R15-17	
<1	7429-90-5	231-072-3	-	Aluminium powder (stabilised)	F;R11-15	T

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GHS:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
<0,25	68308-64-5	269-662-8	-	Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates	Skin Corr. 1B;H314 Acute Tox. 4;H302 Skin Irrit. 2;H315 Aquatic Acute 1;H400	
<1	108-94-1	203-631-1	-	Cyclohexanone	Flam. Liq. 3;H226 Acute Tox. 4;H332	
10-25	1330-20-7	215-535-7	-	Xylene	Flam. Liq. 3;H226 Acute Tox. 4;H332 Acute Tox. 4;H312 Skin Irrit. 2;H315	C
<1	67-63-0	200-661-7	01-2119457558-25-xxxx	Propan-2-ol	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	
2,5-5	64742-82-1	265-185-4	-	Naphtha (petroleum), hydrodesulfurized heavy	Flam. Liq. 3;H226 Asp. Tox. 1;H304 STOT RE 2;H373 STOT SE 3;H336 Aquatic Chronic 2;H411	
<0,25	64742-95-6	265-199-0	-	Solvent naphtha (petroleum), light arom.	Flam. Liq. 3;H226 Asp. Tox. 1;H304 STOT SE 3;H335/336 Aquatic Chronic 2;H411 EUH066	
<0,25	64742-94-5	265-198-5	-	Solvent naphtha (petroleum), heavy arom.; Kerosine-unspecified	Asp. Tox. 1;H304 STOT SE 3;H336 EUH066 Aquatic Chronic 2;H411	
<0,25	123-86-4	204-658-1	-	n-Butyl acetate	Flam. Liq. 3;H226 STOT SE 3;H336 EUH066	
<0,25	108-65-6	203-603-9	-	2-Methoxy-1-methylethyl acetate	Flam. Liq. 3;H226	
2,5-5	100-41-4	202-849-4	-	Ethylbenzene	Flam. Liq. 2;H225 Acute Tox. 4;H332	
<0,25	64742-48-9	265-150-3	-	Naphtha (petroleum), hydrotreated heavy	Flam. Liq. 3;H226 Asp. Tox. 1;H304 EUH066	P
<0,25	57-55-6	200-338-0	-	Propylene glycol	-	
<0,25	61791-55-7	263-189-0	-	Amines, N-tallow alkyltrimethylenedi-	Skin Corr. 1B;H314 Acute Tox. 4;H302 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	
1-2,5	7429-90-5	231-072-3	-	Aluminium powder (pyrophoric)	Water-react. 2;H261 Pyr. Sol. 1;H250	T
<1	7429-90-5	231-072-3	-	Aluminium powder (stabilised)	Water-react. 2;H261 Flam. Sol. 1;H228	T

References: The full text for all R-phrases and hazard statements are displayed in section 16.

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SECTION 4: FIRST AID MEASURES

Description of first aid measures

Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

Inhalation: Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

Most important symptoms and effects, both acute and delayed

Symptoms/effects: See section 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Not known.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Special hazards arising from the substance or mixture

Specific hazards: When heated and in case of fire, harmful vapors/gases may be formed.

Advice for firefighters

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid inhalation of vapors and contact with skin and eyes. Do not smoke or use open fire, or other sources of ignition.

Environmental precautions

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up

Spill Cleanup Methods: Absorb spillage with non-combustible, absorbent material. Do not use sawdust or other combustible material.

Reference to other sections

References: For personal protection, see section 8. For waste disposal, see section 13.

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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Safe handling advice: Avoid inhalation of vapors and contact with skin and eyes. Do not smoke or use open fire, or other sources of ignition. Observe good chemical hygiene practices. For personal protection, see section 8.

Technical measures: Work practice should minimize contact.

Technical precautions: Local exhaust is recommended.

Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: Follow rules for flammable liquids.

Storage conditions: Store in a cool and well-ventilated place. Avoid contact with oxidizing agents.

Specific end use(s)

Specific use(s): Not relevant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits:

<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>	
108-94-1	Cyclohexanone	-	20 ppm	TWA	Skin; A3	ACGIH	
		-	50 ppm	STEL	Skin; A3; 15min		
123-86-4	n-Butyl acetate	-	150 ppm	TWA	-	ACGIH	
		-	200 ppm	STEL	15min		
100-41-4	Ethyl benzene	-	20 ppm	TWA	A3	ACGIH	
1330-20-7	Xylene (o, m & p isomers)	-	100 ppm	TWA	A4	ACGIH	
		-	150 ppm	STEL	A4; 15min		
64742-82-1	Stoddard solvent	-	100 ppm	TWA	-	ACGIH	
7429-90-5	Aluminum metal, respirable fraction	-	1 mg/m3	TWA	A4	ACGIH	
67-63-0	2-Propanol	-	200 ppm	TWA	A4	ACGIH	
		-	400 ppm	STEL	A4; 15min		
108-94-1	Cyclohexanone	-	50 ppm	200 mg/m3	TWA	-	OSHA
123-86-4	n-Butyl-acetate	-	150 ppm	710 mg/m3	TWA	-	OSHA
100-41-4	Ethyl benzene	-	100 ppm	435 mg/m3	TWA	-	OSHA
1330-20-7	Xylenes, all isomers	-	100 ppm	435 mg/m3	TWA	-	OSHA
64742-82-1	Stoddard solvent	-	500 ppm	2900 mg/m3	TWA	-	OSHA
7429-90-5	Aluminum, metal, total dust	Al		15 mg/m3	TWA	-	OSHA
7429-90-5	Aluminum, metal, respirable fraction	Al		5 mg/m3	TWA	-	OSHA
67-63-0	Isopropyl alcohol	-	400 ppm	980 mg/m3	TWA	-	OSHA

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Notes: A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans.
A4: Not Classifiable as a Human Carcinogen.
Skin: Danger of cutaneous absorption. (ACGIH)
X: Skin absorption. (OSHA)

Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Provide easy access to water supply or an emergency shower.

Personal protection: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation: Use respiratory equipment with gas filter, type A2.

Hand protection: Wear protective gloves. Lamine (PE/EVOH) gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection: Risk of splashes: Wear goggles/face shield.

Skin protection: Wear apron or protective clothing in case of splashes.

Environmental Exposure Controls: Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: liquid
Odor: characteristic
pH: Not available.
Boiling point: Not available.
Flash point: 21-31°C
Explosion limits: 0,5-12,6%
Relative density: 0,9-1,3
Solubility: insoluble in water

Other information

Other data: VOC (Volatile Organic Substances): 440 g/l (calculated)

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SECTION 10: STABILITY AND REACTIVITY

Reactivity

Reactivity: None known.

Chemical stability

Stability: Stable under normal temperature conditions.

Possibility of hazardous reactions

Hazardous Reactions: None known.

Conditions to avoid

Conditions/materials to avoid: Avoid exposure to high temperatures or direct sunlight. Avoid contact with oxidizing agents.

Incompatible materials

Incompatible materials: None known.

Hazardous decomposition products

Hazardous decomposition products: None in particular.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhalation: Harmful by inhalation. Vapors and spray mist may irritate throat and respiratory system and cause coughing. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Skin contact: Harmful in contact with skin. Irritating and degreasing. Contains organic solvents which may penetrate the skin.

Eye contact: Splashes may irritate.

Ingestion: May irritate and cause malaise.

Specific effects: Frequent inhalation of even small concentrations may cause irritability, fatigue, memory failure and in time permanent damage to the nervous system, including the brain, and possibly liver and kidneys, too.

Carcinogenicity:
IARC Cancer Review: Group 3 for Xylenes.
National Toxicology Program (NTP): No.
OSHA: No.

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability

Degradability: The degradability of the product has not been stated.

Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

Mobility in soil

Mobility: No data available.

Results of PBT and vPvB assessment

PBT/vPvB: Not relevant.

Other adverse effects

Other adverse effects: The product contains a substance which has a photochemical ozone creation potential.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste. Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

Waste from residues: EWC-code:16 05 08
Used cloths, etc. EWC-code: 15 02 02

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SECTION 14: TRANSPORT INFORMATION

UN number

UN-No: 1263

UN proper shipping name

Proper Shipping Name: PAINT

Additional IMDG information:

EmS: F-E , S-E

MFAG: 1

Transport hazard class(es)

Class: 3

Packing group

PG: III

Environmental hazards

Marine pollutant: No.

Environmentally Hazardous substance: No.

Special precautions for user

Special precautions: None known.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: Not relevant.

SECTION 15: REGULATORY INFORMATION

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

Special provisions: TSCA: Listed.

National regulation:

Europe/USA:

This Material Safety Data Sheet has been prepared according to the EU-regulation.

Threshold Limit Values (2013), ACGIH, by the American Conference on Governmental Industrial Hygienists.

The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and Health Standards, Air contaminants (OSHA), with amendments.

International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health Organization.

Chemical Safety Assessment

CSA status: Not relevant.

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SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: -
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

Allan Vorup

Wording of H-statements:

R10	Flammable.
R11	Highly flammable.
R15	Contact with water liberates extremely flammable gases.
R17	Spontaneously flammable in air.
R21	Harmful in contact with skin.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapors may cause drowsiness and dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

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H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H250	Catches fire spontaneously if exposed to air.
H261	In contact with water releases flammable gases.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.
www.dhigroup.com.
