Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.05.2015 V- 2 Revision: 18.05.2015

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

1.1 Product identifier

Trade name: OSCCAR Filler 741 HS 4:1
1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: professional use.
Application of the substance / the mixture Filler and surfacer

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Luxon Trade LTD,
14 Chase grove
Birmingham, B24 0HU
United Kingdom
Tel: +44 1213 680433
Fax: +44 1213 680642
info@osccar-paint.com

Further information obtainable from: info@osccar-paint.com
1.4 Emergency telephone number: 44 1213 680 433

*
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008


GHS02

Flam. Liq. 3 H226 Flammable liquid and vapour.


GHS09

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


GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC


Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.
R10: Flammable.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms


GHS02 GHS07 GHS09

Signal word Warning
Hazard statements
H226 Flammable liquid and vapour.
H315 Causes skin irritation.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.05.2015 V- 2 Revision: 18.05.2015

Trade name: OSCCAR Filler 741 HS 4:1

(Contd. of page 1)

H411 Toxic to aquatic life with long lasting effects.
Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

*
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 1330-20-7 EINECS: 215-535-7	xylene Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	5-15%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate R10-66-67 Flam. Liq. 3, H226; STOT SE 3, H336	2.5-10%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene Xn R20/21; Xi R38 Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1-7.5%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate R10 Flam. Liq. 3, H226	1-7.5%
CAS: 7779-90-0 EINECS: 231-944-3 Reg.nr.: 01-2119485044-40	trizinc bis(orthophosphate) N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-2.5%
EC number: 919-446-0 Reg.nr.: 01-2119458049-33	hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Xn R65; N R51/53 R10-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	0.1-1%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32	zinc oxide N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-1%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Xn R20-48/20-65; F R11 Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	0.1-1%

Additional information: For the wording of the listed risk phrases refer to section 16.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.05.2015 V- 2 Revision: 18.05.2015

Trade name: OSCCAR Filler 741 HS 4:1

(Contd. of page 2)

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.
Take affected persons out of danger area and lay down.
After inhalation:
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
After skin contact: Immediately wash with water and soap and rinse thoroughly.
After eye contact: Rinse opened eye for several minutes under running water.
After swallowing: Do not induce vomiting; call for medical help immediately.
4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture
Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide and carbon dioxide
5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Additional information
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

*
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
Avoid contact with the eyes and skin.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Do not flush with water or aqueous cleansing agents
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.05.2015 V- 2 Revision: 18.05.2015

Trade name: OSCCAR Filler 741 HS 4:1

(Contd. of page 3)

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
Do not allow to enter sewers/ surface or ground water.
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from oxidising agents.
Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.
7.3 Specific end use(s) No further relevant information available.

*

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
1330-20-7 xylene	
WEL (Great Britain)	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin
123-86-4 n-butyl acetate	
WEL (Great Britain)	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm
1330-20-7 xylene	
WEL (Great Britain)	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.05.2015 V- 2 Revision: 18.05.2015

Trade name: OSCCAR Filler 741 HS 4:1

(Contd. of page 4)

108-65-6 2-methoxy-1-methylethyl acetate	
WEL (Great Britain)	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk
IOELV (EU)	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm Skin
100-41-4 ethylbenzene	
WEL (Great Britain)	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk
IOELV (EU)	Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin

DNELs

123-86-4 n-butyl acetate		
Dermal	DNEL	7 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	960 mg/m3 (acute - systemic effects, workers)
		960 mg/m3 (acute - local effects, workers)
		480 mg/m3 (long-term - systemic effects, workers)
		480 mg/m3 (long-term - local effects, workers)
1330-20-7 xylene		
Dermal	DNEL	180 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	289 mg/m3 (acute - systemic effects, workers)
		289 mg/m3 (acute - local effects, workers)
		77 mg/m3 (long-term - systemic effects, workers)
		77 mg/m3 (long-term - local effects, workers)
108-65-6 2-methoxy-1-methylethyl acetate		
Dermal	DNEL	153.5 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	275 mg/m3 (long-term - systemic effects, workers)
7779-90-0 trizinc bis(orthophosphate)		
Dermal	DNEL	83 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	1 mg/m3 (long-term - systemic effects, workers)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		
Dermal	DNEL	44 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	330 mg/m3 (long-term - systemic effects, workers)
1314-13-2 zinc oxide		
Dermal	DNEL	83 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	5 mg/m3 (long-term - systemic effects, workers)
100-41-4 ethylbenzene		
Dermal	DNEL	180 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	293 mg/m3 (acute - local effects, workers)
		77 mg/m3 (long-term - systemic effects, workers)

PNECs

123-86-4 n-butyl acetate	
PNEC	0.18 mg/l (freshwater environment)
	0.018 mg/l (marine environment)

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.05.2015 V- 2 Revision: 18.05.2015

Trade name: OSCCAR Filler 741 HS 4:1

(Contd. of page 5)

	0.36 mg/l (intermittent releases) 0.981 mg/kg (freshwater sediment environment) 35.6 mg/l (sewage treatment plants)
1330-20-7 xylene	
PNEC	0.327 mg/l (freshwater environment) 12.46 mg/kg (freshwater sediment environment) 2.31 mg/kg (soil) 6.58 mg/l (sewage treatment plants)
108-65-6 2-methoxy-1-methylethyl acetate	
PNEC	0.635 mg/l (freshwater environment) 0.0635 mg/l (marine environment) 6.35 mg/l (intermittent releases) 3.29 mg/kg (freshwater sediment environment) 0.329 mg/kg (marine sediment environment) 100 mg/l (sewage treatment plants)
7779-90-0 trizinc bis(orthophosphate)	
PNEC	235.6 mg/kg (freshwater sediment environment) 113 mg/kg (marine sediment environment)
1314-13-2 zinc oxide	
PNEC	0.0206 mg/l (freshwater environment) 0.0061 mg/l (marine environment) 117.8 mg/kg (freshwater sediment environment) 56.5 mg/kg (marine sediment environment) 35.6 mg/kg (soil) 0.1 mg/l (sewage treatment plants)
100-41-4 ethylbenzene	
PNEC	0.1 mg/l (freshwater environment) 0.01 mg/l (marine environment) 0.1 mg/l (intermittent releases) 13.7 mg/kg (freshwater sediment environment) 1.37 mg/kg (marine sediment environment) 2.68 mg/kg (soil) 9.6 mg/l (sewage treatment plants)

Ingredients with biological limit values:	
1330-20-7 xylene	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
1330-20-7 xylene	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

Additional information: The lists valid during the making were used as basis.

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.05.2015 V- 2 Revision: 18.05.2015

Trade name: OSCCAR Filler 741 HS 4:1

(Contd. of page 6)

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:
Ensure good ventilation/exhaustion at the workplace.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Keep ignition sources away - Do not smoke.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not eat or drink while working.
Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Filter A/P2
Use suitable respiratory protective device in case of insufficient ventilation.
Protection of hands:

Protective gloves

Check the permeability prior to each anewed use of the glove.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (EN 374).
Material of gloves
Fluorocarbon rubber (Viton)
Recommended thickness of the material: ≥ 0,7 mm
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material
Value for the permeation: Level 6 ≥ 480 min.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:

Tightly sealed goggles

Body protection: Protective work clothing

*
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:

Form:	Highly viscous
Colour:	Different according to colouring
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.05.2015 V- 2 Revision: 18.05.2015

Trade name: OSCCAR Filler 741 HS 4:1

(Contd. of page 7)

Flash point:	> 23 °C
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	1.0 Vol %
Upper:	15.0 Vol %
Vapour pressure at 20 °C:	10.7 hPa
Density:	1.4-1.6 g/cm³
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No decomposition if used according to specifications.
10.2 Chemical stability No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions
Reacts with alkali, amines and strong acids.
Reacts with oxidising agents.
Fumes can combine with air to form an explosive mixture.
10.4 Conditions to avoid Protect from heat and direct sunlight.
10.5 Incompatible materials: No further relevant information available.
10.6 Hazardous decomposition products:
Carbon monoxide and carbon dioxide
Formation of toxic gases is possible during heating or in case of fire.

*
SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity

LD/LC50 values relevant for classification:		
1330-20-7 xylene		
Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
123-86-4 n-butyl acetate		
Oral	LD50	10760 mg/kg (rat)
Dermal	LD50	10760 mg/kg (rat)
		>14000 mg/kg (rabbit)

(Contd. on page 9)

(Contd. of page 8)

Inhalative	LC50/4 h	23.4 mg/l (rat)
1330-20-7 xylene		
Oral	ATE	>2000 mg/kg (-)
Dermal	ATE	1466.67 mg/kg (-)
Inhalative	ATE	12.09 mg/l (-) (vapour)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/6 h	4345 mg/l (rat)
7779-90-0 trizinc bis(orthophosphate)		
Oral	LD50	>5000 mg/kg (rat)
1314-13-2 zinc oxide		
Oral	LD50	> 5000 mg/kg (rat)
100-41-4 ethylbenzene		
Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

Primary irritant effect:
Skin corrosion/irritation
Causes skin irritation.
Serious eye damage/irritation Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
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 Based on available data, the classification criteria are not met.
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.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
123-86-4 n-butyl acetate	
EC50/48 h	44 mg/l (daphnia)
EC50/72 h	675 mg/l (algae)
LC50/96 h	18 mg/l (Pimephales promelas)
TT/16 h	115 mg/l (Pseudomonas putida)
1330-20-7 xylene	
EC50/24 h	96 mg/l (microorganisms)
EC50/48 h	>1-10 mg/l (Daphnia magna)
IC50/72 h	2.2 mg/l (algae)
LC50/96 h	2.6 mg/l (fish)
108-65-6 2-methoxy-1-methylethyl acetate	
EC20/30 min	>1000 mg/l (microorganisms)
EC50	>100 mg/l (Pseudokirchnerella subcapitata)
	>100 mg/l (Pimephales promelas)

(Contd. on page 10)

(Contd. of page 9)

	>100 mg/l (Daphnia magna)
EC50/48 h	>500 mg/l (Daphnia magna)
EC50/72 h	>1000 mg/l (Pseudokirchnerella subcapitata)
LC50/96 h	>100 mg/l (fish)
7779-90-0 trizinc bis(orthophosphate)	
EC50/3 h	5.2 mg/l (microorganisms)
EC50/48 h	>2.34 mg/l (Daphnia magna)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	
EC50/72 h	0.94 mg/l (Pseudokirchnerella subcapitata)
1314-13-2 zinc oxide	
EC50/24 h	9.4 mg/l (microorganisms)
EC50/72 h	0.042 mg/l (Pseudokirchnerella subcapitata)
LC50/48 h	1.55 mg/l (Daphnia magna)
LC50/96 h	4.92 mg/l (fish)
100-41-4 ethylbenzene	
EC20/30 min	200 mg/l (microorganisms)
EC50/24 h	13.4 mg/l (algae)
	7 mg/l (fish)
EC50/48 h	2.4 mg/l (Daphnia magna)

12.2 Persistence and degradability	
123-86-4 n-butyl acetate	
Biodegradation	83 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)
1330-20-7 xylene	
Biodegradation	>60 % (readily biodegradable) (OECD 301 F, 28 d, aerobic)
108-65-6 2-methoxy-1-methylethyl acetate	
Biodegradation	100 % (readily biodegradable) (OECD 302 B, 8 d, aerobic)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	
Biodegradation	75.9 % (readily biodegradable) (OECD 301 F, 28 d, aerobic)
100-41-4 ethylbenzene	
Biodegradation	100 % (readily biodegradable) (OECD 301 E, 6 d, aerobic)

12.3 Bioaccumulative potential	
123-86-4 n-butyl acetate	
BCF	15.3 (-)
log Pow	2.3 (-)
1330-20-7 xylene	
BCF	25.9 (-)
log Pow	3.15 (-)
108-65-6 2-methoxy-1-methylethyl acetate	
log Pow	0.56 (-)
100-41-4 ethylbenzene	
BCF	1 (-)

12.4 Mobility in soil	
123-86-4 n-butyl acetate	
log Koc	1.27 (-)
108-65-6 2-methoxy-1-methylethyl acetate	
Koc	1.7 (-)

(Contd. on page 11)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.05.2015 V- 2 Revision: 18.05.2015

Trade name: OSCCAR Filler 741 HS 4:1

(Contd. of page 10)

100-41-4 ethylbenzene	
log Koc	2.41 (-)

Additional ecological information:
General notes:
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue	
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

*

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA UN1263

14.2 UN proper shipping name
ADR 1263 PAINT
IMDG PAINT (trizinc bis(orthophosphate), hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)), MARINE POLLUTANT
IATA PAINT

14.3 Transport hazard class(es)

ADR, IMDG

Class 3
Label 3

IATA

Class 3
Label 3

14.4 Packing group
ADR, IMDG, IATA III

(Contd. on page 12)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.05.2015 V- 2 Revision: 18.05.2015

Trade name: OSCCAR Filler 741 HS 4:1

(Contd. of page 11)

14.5 Environmental hazards:	Environmentally hazardous substance, liquid Product contains environmentally hazardous substances: trizinc bis(orthophosphate)
Marine pollutant (IMDG):	Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	30
EMS Number:	F-E,S-E
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Transport category	3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
UN "Model Regulation":	UN1263, PAINT, 3, III

*

SECTION 15: Regulatory information

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

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Information about limitation of use:
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
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.

R10 Flammable.
R11 Highly flammable.

(Contd. on page 13)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.05.2015 V- 2 Revision: 18.05.2015

Trade name: OSCCAR Filler 741 HS 4:1

(Contd. of page 12)

R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
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.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Sources European Chemicals Agency, http://echa.europa.eu/

*** Data compared to the previous version altered.**