

Product : FlowSolve 213  
Version: 1

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Date Prepared: August 2010

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

Identification of the substance/mixture	FlowSolve 213
Synonyms	None
Use of the substance/mixture	Dispersant
Company Identification	JD Horizons Limited
Address and Telephone No.	Grove House Warford Park Faulkners Lane Mobberley Cheshire WA16 7PE United Kingdom Tel: +44 (0) 1565 880 139 Fax: +44 (0) 1565 874 159
Emergency Phone No.	+44 (0) 1900 604 371
Contact	email@jdhorizons.com

## 2. HAZARDS IDENTIFICATION

Important hazards	
- Health/Physical hazards	Limited evidence of a carcinogenic effect. Classified in EU as a Category 3 carcinogen.
- Environmental hazards	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

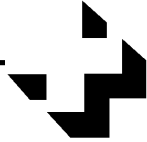
Warning—This mixture contains a substance not yet tested completely.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous component(s)

Ingredient	CAS Number	EC Number	%	Symbol	Risk Phrases
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5	265-198-5	45	Xn	R65
Naphthalene	91-20-3	202-049-5	< 5	Xn, N	R22-40-50/53

For full wording of Risk phrases see Section 16.



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#### 4. FIRST-AID MEASURES

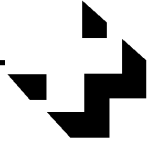
Inhalation	Remove patient to fresh air, allow to rest and keep warm. If symptoms develop, seek medical attention.
Skin contact	Wash immediately with plenty of soap and water. Remove any contaminated clothing and laundry before reuse. If symptoms develop, seek medical attention.
Eye contact	Flush immediately with plenty of water for at least 15 minutes, keeping eyelids open. If symptoms develop, seek medical attention.
Ingestion	DO NOT induce vomiting! Rinse mouth out with water, but do not give anything to drink. If symptoms develop, seek medical attention.
Personal precautions	Ensure that those giving first aid treatment do not get contaminated by product spills, etc. Wear suitable protective clothing, gloves, safety goggles. See also Section 8.

#### 5. FIRE-FIGHTING MEASURES

Extinguishing media	Suitable extinguishing media for the surrounding fire, except water. Water. None other than those emitted by materials of construction. Self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
- Suitable	
- Not to be used	
Special exposure hazards	
Special protective equipment for fire fighters	

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective clothing, gloves, safety goggles. See Section 8 for details. Turn leaking containers leak-side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Eliminate all sources of ignition.
Environmental precautions	Prevent from entering sewers or the immediate environment. Contain the spillage using bunding. In case of large spill, inform local police and/or fire brigade.



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Methods for cleaning up

- on soil Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. See Section 13.
- on water Recover by skimming and/or absorption with floating absorbant packs.

**7. HANDLING AND STORAGE**

- Handling Ensure there is sufficient ventilation of the area. Do not smoke. Avoid sources of ignition. Avoid contact with skin and eyes. Do not ingest.
- Storage Store in a cool, well ventilated area in original containers. Keep container tightly closed when not in use. The floor of the storage room must be impermeable to prevent the escape of liquids. Keep away from sources of ignition.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Recommended engineering controls Ensure good ventilation. Arrange for eye wash possibility.
- Control parameters:
- WEL (EH40UK) Naphthalene
  - OEL (EU) None set.
  - OEL (Norway) 10 ppm (50mg/m<sup>3</sup>) 8hour TWA
  - 10 ppm (50mg/m<sup>3</sup>) 8hour TWA
- Monitoring procedures Not required.
- Personal protection:
- Always check applicability with your supplier of protective equipment.
- Respiratory protection None in normal conditions of use, but self-contained breathing apparatus must be available in case of emergency.
  - Skin protection Laboratory coat or overalls.
  - Eye protection Splash proof safety glasses or goggles.
  - Hand protection Nitrile or thick PVC gloves. Break-through times can vary depending on thickness, use and source. Change gloves regularly.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Oily brown liquid
Odour	Aromatic hydrocarbon
Boiling point/range (°C)	220 - 290
Flash point (Closed Cup) (°C)	62
Autoflammability (°C)	> 450
Explosive properties	None
Oxidising properties	None
Pour point (°C)	-33
Density at 15°C (kg/m <sup>3</sup> )	938
Kinematic Viscosity (cSt @ 40°C)	217
Solubility in water (% by weight)	Insoluble
Solubility in solvents	Miscible with most non-polar solvents
Partition coefficient (log P <sub>OW</sub> )	3.56 - 5.06

*Note: These are typical values and do not constitute a specification.*

## 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use.
Conditions to avoid	Sources of ignition.
Materials to avoid	Strong oxidising agents. Strong acids.
Hazardous decomposition products	In fire, emits none other than those emitted by materials of construction.

## 11. TOXICOLOGICAL INFORMATION

### Test data:

– No data available for product.

Warning—This mixture contains a substance not yet tested completely.

### Exposure hazard:

- |                |  |
|----------------|--|
| - Inhalation   | May cause irritation of the throat with a feeling of tightness in the chest. |
| - Skin contact | May cause mild irritation at the site of contact.                            |
| - Eye contact  | May cause transient irritation and redness.                                  |
| - Ingestion    | May cause irritation of the throat.  |

### Other data

Contains a small amount of naphthalene, which has been classified in the EU as a Category 3 carcinogen.

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## 12. ECOLOGICAL INFORMATION

Aquatic toxicity:	No data available for product.
Active ingredient	
- LC <sub>50</sub> , Fish ( <i>Scophthalmus maximus</i> ), 96hr (mg/l)	> 187
- LC <sub>50</sub> , Invertebrate ( <i>Acartia tonsa</i> ), 48hr (mg/l)	> 187
- EC <sub>50</sub> , Algae ( <i>Skeletonema costatum</i> ), 72hr (mg/l)	> 1000
- LC <sub>50</sub> , Sediment reworker ( <i>Corophium sp</i> ), 10 day (mg/kg)	> 11978
Environmental effects:	
Mobility:	Readily absorbed into soil. Floats on water.
Persistence and degradability:	Biodegradable. 53% for the solvent (OECD 306). 2% for the active ingredient (BODIS Marine).
Bioaccumulation potential:	For solvent: Log Pow 3.56 - 5.06 (OECD 117). For active ingredient: Log Pow < 3 (OECD 117).

Due to the high Log Pow and presence of a small amount of naphthalene in the solvent, this product is classified in the EU as R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects.

## 13. DISPOSAL CONSIDERATIONS

Disposal of product	Dispose of as Hazardous Waste, via a licensed contractor ensuring that all national and local authority requirements are complied with. It is not suitable for landfill. The preferred method of disposal is by incineration in appropriate equipment.
Disposal of packaging	Contaminated packing should be disposed of as Hazardous Waste, as above, according to local authority guidelines.

## 14. TRANSPORT INFORMATION

UN No.	3082
Proper shipping name	Environmentally Hazardous Substance, Liquid NOS (Naphthalene)
<b>Land transport:</b>	ADR
- Transport hazard label	Miscellaneous dangerous substances and articles
- RID/ADR classification	9
- Packaging group	III
- HIN	90
- EAC	3Z
<b>Maritime transport:</b>	IMDG
- Transport hazard label	Miscellaneous dangerous substances and articles
- IMO-IMDG class	9
- Packaging group	III
- EmS code(s)	FA, SF
- Marine Pollutant	Yes

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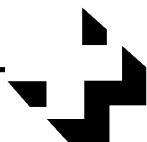
<b>Air transport:</b>	ICAO/IATA
- Transport hazard label	Miscellaneous dangerous substances and articles
- ICAO/IATA classification	9
- Packing group	III
- ERG Code	9L
- Packing Instructions	Y914, 914 (Passenger & Cargo aircraft)
- Max. net qty/package	30 litres (5 litre non-UN packs) (Passenger aircraft) 450 litres (Cargo aircraft)

## 15. REGULATORY INFORMATION

### EU labelling information

Contains:	Solvent naphtha
Symbol(s)	Xn Harmful N Dangerous for the environment
R-Phrase(s)	R40 Limited evidence of a carcinogenic effect R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S-Phrase(s)	S23 Do not breathe vapour S24 Avoid contact with skin S36/37 Wear suitable protective clothing and gloves S61 Avoid release to the environment. Refer to special instructions/safety data sheet
Specific provisions	UK Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 EU REACH Regulation 1907/2006
Other National/Regional Regulations:	
USA	All ingredients of this product are either listed on the TSCA list or are specifically exempted under the polymer exemption rules. Contains naphthalene, which is listed in California Proposition 65.
Canada	All ingredients of this product are listed on the Domestic Substances List.
EU	All ingredients of this product are listed in EINECS or ELINCS, unless specifically exempted under EU Directive 67/548/EEC (as amended).

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions, which complete these regulations. Refer to all applicable national, international and local regulations or provisions.



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## 16. OTHER INFORMATION

Sources of key data used	REACH Annex VI, Table 3.2 Suppliers' Safety Data Sheets In-house test data
Version number	1
Date prepared	18.08.10
Supersedes Version	NA
Nature of revision	First issue
R-phrases used in document	R22 Harmful if swallowed R40 Limited evidence of a carcinogenic effect R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R65 Harmful: may cause lung damage if swallowed

Based on EU Regulation 1907/2006

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

End of document

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