

Product : FLOWSOLVE 212 LN
Version : 1

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Date Prepared: March 2011

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

- 1.1. Product identifier** FLOWSOLVE 212 LN
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
 Uses: Dispersant
 Not to be used for: All other uses
- 1.3. Details of the supplier of the safety data sheet**
 JD Horizons Limited
 Grove House
 Warford Park
 Faulkners Lane
 Mobberley
 Cheshire
 UK WA16 7PE
 Tel : +44 (0) 1565 880 139
 Fax : +44 (0) 1565 874 159
 E-mail : email@jdhorizons.com
- 1.4. Emergency telephone number** +44 (0) 1900 604 371


SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Indication of Danger: DANGEROUS FOR THE ENVIRONMENT

- Contains: Solvent naphtha (petroleum), heavy aromatic
- Symbol(s) N 
- R-Phrase(s) R66 Repeated exposure may cause skin dryness or cracking
 R67 Vapours may cause drowsiness and dizziness
 R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
- S-Phrase(s) S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

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S60 This material and its container must be disposed of as hazardous waste

2.3. Other hazards None known

3.2. Mixtures

Hazardous component(s)
Under DPD EC1999/45

Ingredient	CAS/EC Number	REACH Registration Number	%	Symbol	Risk Phrases
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5 / 265-198-5	01-2119463583-34	50	Xn	R65-66-67-51/53

For full wording of Risk phrases see Section 16.

Under CLP EC1272/2008

Ingredient	CAS/EC Number	REACH Registration Number	%	CLP Hazard Category	H Statements
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5 / 265-198-5	01-2119463583-34	50	Asp. Tox. 1 STOT SE 3 Aquatic Chronic 2	H304 EUH066 H336 H411

For full wording of H-statements see Section 16.

4.1. Description of 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 launder 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.

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

Repeated exposure may cause skin dryness or cracking. Inhalation of vapours can cause headache, dizziness, drowsiness, nausea and other symptoms of central nervous system depression.

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

None other than above.

5.1. Extinguishing media

- Suitable Water fog, foam, dry powder or carbon dioxide.
- Not to be used Water jet.

5.2. Special hazards arising from the substance or mixture

None other than those emitted by materials of construction.

5.3. Advice for fire fighters

Wear self-contained breathing apparatus and protective clothing. Prevent fire fighting water entering watercourses or groundwater.

6.1. Personal precautions, protective equipment and emergency procedures

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.

6.2. 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.

6.3. Methods and material for containment and cleaning up

- on soil Absorb onto inert material such as sand or earth. Transfer to a closable, labelled salvage container for disposal as Hazardous Waste. See Section 13.
- on water Recover by skimming and/or absorption with floating absorbent packs.

6.4. Reference to other sections

See Section 8 for details of protective equipment. See Section 13 for details of disposal.

7.1. Precautions for safe 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.

7.2. Conditions for safe storage, including any incompatibilities

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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.

7.3. Specific end use(s)

Dispersant

8.1. Control parameters

None set.

Monitoring procedures

None specified

8.2. Exposure Controls

Recommended engineering controls

Ensure good ventilation. Arrange for eye wash possibility.

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 gloves.
(Break-through times can vary depending on thickness, use and source. Change gloves regularly)
- General hygiene
Do not eat, drink, or smoke while using this product. Immediately take off any contaminated clothing and launder before re-use. Wash hands and/or face before breaks and at the end of the shift.

9.1. Information on basic physical and chemical properties

Appearance	Oily brown liquid
Odour	Aromatic hydrocarbon
Odour Threshold Value:	Not determined
pH (concentrated product)	Not applicable - organic liquid
Melting point (°C)	Not determined
Boiling point/range (°C)	220 - 290
Flash point (Pensky Martens) (°C)	> 63
Evaporation rate	0.060 (Butyl acetate = 1)
Flammability	Combustible liquid
Explosive properties/limits	Limits in air for solvent - 0.6 to 7.0 % by volume
Vapour pressure of solvent (kPa at x°C)	0.09 kPa (20°C)
	0.5 kPa (38°C)
	1.3 kPa (50°C)
Vapour density	Not determined
Density at 15°C (kg/m ³)	936

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Solubility in water (% by weight)	Insoluble
Solubility in solvents	Miscible with most non-polar solvents
Partition coefficient of solvent (log K _{ow})	3.56 - 5.06 (OECD 117)
Auto-ignition temperature (°C)	> 400
Decomposition temperature (°C)	Not determined
Kinematic Viscosity (cSt @ 40°C)	116
Oxidising properties	Not considered to be oxidising

9.2. Other information

Pour point (°C) -33

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

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

None expected.

10.4. Conditions to avoid

Sources of ignition.

10.5. Incompatible materials

Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

In fire, emits none other than those emitted by materials of construction.

11.1. Information on toxicological effects

No data available on mixture. Data based on individual components shown below:

(a) Acute toxicity	Reason for no classification: Data conclusive but not sufficient for classification.
(b) Irritation	Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. High vapour concentrations are irritating to the eyes and respiratory tract.
(c) Corrosivity	Reason for no classification: Data conclusive but not sufficient for classification.
(d) Sensitisation	Reason for no classification: Data conclusive but not sufficient for classification.
(e) Repeat dose toxicity	Reason for no classification: Data conclusive but not sufficient for classification.

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(f) Carcinogenicity	Reason for no classification: Data conclusive but not sufficient for classification.
(g) Mutagenicity	Reason for no classification: Data conclusive but not sufficient for classification.
(h) Toxicity for reproduction	Reason for no classification: Data conclusive but not sufficient for classification.
Likely routes of exposure	Inhalation, skin and eye contact.
Symptoms related to the physical, chemical and toxicological characteristics	Skin contact may result in skin dryness, cracking or dermatitis. High vapour concentrations are irritating to the respiratory tract, may cause headaches drowsiness and dizziness, are anaesthetic and may have other central nervous system effects.
Delayed and immediate effects as well as chronic effects from short and long-term exposure	None other than above.
Other information	None.

No data available on mixture. Data based on individual components shown below:

12.1. Toxicity

Aquatic toxicity based on a similar product:

- LC ₅₀ , Fish (<i>Scophthalmus maximus</i>), 96hr (mg/l)	> 1000
- EC ₅₀ , Invertebrate (<i>Acartia tonsa</i>), 48hr (mg/l)	> 1000
- IC ₅₀ , Algae (<i>Skeletonema costatum</i>), 72hr (mg/l)	> 1000
- LC ₅₀ , Sediment reworker (<i>Corophium volutator</i>), 10 day (mg/kg)	> 10000

12.2. Persistence and degradability

Biodegradable. 53% for the solvent (OECD 306).

12.3. Bioaccumulative potential

For solvent: Log Kow 3.56 - 5.06 (OECD 117).

12.4. Mobility in soil

Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

Does not fulfil the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

None known

Due to reported classification of the solvent, this product has to be classified under the rules set out in the EU Dangerous Preparations Directive as R51/53 - Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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13.1. Waste treatment methods

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.

14.1. UN number

3082

14.2. UN proper shipping name

Environmentally Hazardous Substance, Liquid NOS (Contains Alkyl (C3-C5) benzenes)

14.3. Transport hazard class(es)

9

14.4. Packing group

III

14.5. Environmental hazards

Marine pollutant

14.6. Special precautions for user

See Section 2.2 above

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

Name of substance:

FLOWSOLVE 212 LN; containing poly (2 +) cyclic aromatics

Ship Type required:

2

Pollution Category:

X

Modal information:

Land transport:

ADR

- Transport hazard label

Miscellaneous dangerous substances and articles

- RID/ADR classification

9

- Packaging group

III

- HIN

90

- EAC

3Z

Maritime transport:

IMDG

- Transport hazard label

Miscellaneous dangerous substances and articles

- IMO-IMDG class

9

- Packaging group

III

- EmS code(s)

FA, SF

- Marine Pollutant

Yes

Air transport:

ICAO/IATA

- Transport hazard label

Miscellaneous dangerous substances and articles

- ICAO/IATA classification

9

- Packing group

III

- ERG Code

9L

- Packing Instructions

Y964, 964 (Passenger & Cargo aircraft)

- Max. net qty/package

450 litres (30 kg non-UN packs) (Passenger aircraft)

450 litres (Cargo aircraft)

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

UK Chemicals (Hazard Information and Packaging for Supply) Regulations 2009
EU REACH Regulation 1907/2006
Chemical Agents Directive 98/24/EC

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.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out on this mixture.

Inventories

USA

All ingredients of this product are either listed on the TSCA list or are specifically exempted under the polymer exemption rules.

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).

Sources of data used in this SDS

In-house data files
Literature such as Sax's Dangerous Properties of Industrial Materials, the RSC Dictionary of Substances and their Effects, RTECS
Suppliers' Safety Data Sheets
In-house test data
CLP Annex VI Tables 3.1 & 3.2

Version number

1

Date prepared

21.03.11

Supersedes Version

None

Revisions marked with | in the left margin.

Nature of revision

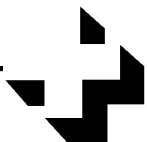
Not applicable - first issue

R-phrases used in document

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

H-statements used in document

H304 May be fatal if swallowed and enters airways
EUH066 Repeated exposure may cause skin dryness or cracking
H336 May cause drowsiness or dizziness.



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H411 Toxic to aquatic life with long lasting effects

Based on EU Regulation 1907/2006 as amended by Regulation 453/2010

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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