

Spectrum FloorCote X335 Two Pack Polyurethane Paint Graphite Black
[Part.1 Base | Part.2 Catalyst]



SAFETY DATA SHEET – Part.1

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 453/2010

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

1.1. Product identifier

Product Name	Spectrum FloorCote X335 Two Pack Polyurethane Paint Graphite Black
Product Inclusion	Part.1 of this document covers Spectrum FloorCote X335 Two Pack Polyurethane Paint Graphite Black. Base only.
Container Size	4.0L

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

Identified Uses	See technical data sheet. For professional use only.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Meon Ltd. Railside Northharbour Spur Portsmouth PO6 3TU +44 (0) 23 9220 0606 mail@meonuk.com
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1.4. Emergency Telephone Number

Emergency telephone	+44 (0) 808 118 1922
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

Flam. Liq. 3 - H226
Skin Irrit. 2 - H315
Eye Irrit. 2 – H319
STOT, SE. 3 – H335
STOT, RE. 2 – H373

2.2. Label Elements

Hazard pictograms



**Spectrum FloorCote X335 Two Pack Polyurethane Paint Graphite Black
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Signal word	Warning
Named Chemicals on Label	
Contains	
H-statement(s)	H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
P-statement(s)	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust, fume, gas, mist, vapours or spray. P280 Wear protective gloves, protective clothing, eye protection and face protection. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P235 Store in a well-ventilated place. Keep cool.
Supplemental hazard information	None.

2.3. Other hazards

Results of PBT and vPvB assessment:

PBT and vPvB not applicable.

SECTION 3: Composition/information on ingredients

SUBSTANCE [] MIXTURE [X]

Description of mixture

Mixture of resins, solvents, pigments and additives.

Dangerous component(s)

Ingredient	Cas-No: EC No: Reach No:	CLP Hazard Statements	Concentration
Xylene	1330-20-7 215-535-7 01-2119488216-32	H226, H304, H312, H315, H319, H332, H335, H373	50-99.9%
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 01-2119475791-29	H226	25-50%
Ethylbenzene	100-41-4 202-849-4 01-2119489370-35	H225, H304, H332, H373	<10%
2-methoxypropyl acetate	70657-70-4 274-724-2	H226, H335, H360D	0.1-1.0%

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

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SECTION 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

4.1. Description of first aid measures

General notes	In case of doubt, or symptom persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.
In case of inhalation:	Move the exposed person to fresh air at once. Keep person warm and at rest. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact:	Remove contaminated clothing immediately and wash skin with soap and water. Do not use solvents or thinners.
In case of eye contact:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
In case of ingestion:	If accidentally swallowed rinse mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do not induce vomiting.
Self-protection of the first aider:	None.

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

None

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

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam, CO ₂ , powders, water spray/mist.
Unsuitable extinguishing media	Water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazard	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.
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5.3. Advice for firefighters

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or watercourses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours.

6.2. Environmental precautions

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent – avoid use of solvents.

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6.4. Reference to other sections

None.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been included. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame, no sparking tools should be used, avoid skin and eye contact, avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture and avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in application area, for personal protection see Section 8, never use pressure to empty: container is not a pressure vessel, always keep in containers of same material as the original one, comply with the health and safety at work laws and do not allow to enter drains or watercourses.

Advice on protection against fire and explosion

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in accordance with the Dangerous Substances and Explosive Atmospheres Regulations, 2002, (DSEAR).

The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR.

Notes on joint storage

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Additional information on storage conditions

Observe label precautions. Store between 5 °C and 25°C in a dry well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. The principles contained in the HSE guidance note, Chemical Warehousing: The Storage of Packaged Dangerous Substances, should be observed when storing this product.

7.3. Specific end uses

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Limits for occupational exposure and/or biological limit values.

Name	LTEL ppm	STEL ppm	STEL mg/m ³	LTEL mg/m ³	Notes
Xylene	50	220	100	441	Sk, BMGV
2-methoxy-1-methylethyl acetate	50	274	100	548	Sk
Ethylbenzene	100	441	125	552	Sk

LTEL - Long Term Exposure Limit, STEL - Short Term Exposure Limit, TWA - Time-Weighted Average.

ppm - parts per million by volume, mg/m³ - milligrams per cubic metre.

BMGV - Biological Monitoring Guidance Values are given in Table 2 of EH40/2005 Workplace exposure limits.

Carc - Capable of causing cancer and/or heritable genetic damage.

Sen - Capable of causing occupational asthma.

Sk - Can be absorbed through the skin. Dermal absorption may lead to systemic toxicity.

8.2. Exposure controls

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Engineering measures	Provide adequate ventilation. Suitable respiratory protection must be worn if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL.
Respiratory protection	If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.
Eye/face protection	Use safety eyewear designed to protect against splash of liquids.
Hand protection	For prolonged or repeated handling, use Polyvinyl Alcohol (PVA) OR Viton Rubber (FluorRuber). Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.
Other skin and body protection	Personnel should wear anti-static clothing made of natural fibre or high temperature resistant synthetic fibre.
Environmental exposure controls	Do not allow to enter drains or watercourses.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Various
Odour:	Fruity. Slight aromatic hydrocarbon.
Melting point/freezing point:	<-39.3°C
Initial boiling point and boiling range:	126-140 760mmHg
Flash point:	24°C
Evaporation rate:	>0.77 (BuAc=1)
Flammability/explosive limits:	
Lower	Not determined.
Higher	Not determined.
Vapour pressure:	>0.82 kPa 20.0
Vapour density(air=1):	>3.7
Relative density(g/ml):	0.98-1.20
Solubility:	Miscible with organic solvents.
Partition coefficient:	>2.3 low Pow
Auto ignition temperature:	>415°C
Decomposition temperature:	Not determined.
Viscosity:	3.5 poise.
Explosive properties:	May form explosives mixture with air.

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4. Conditions to avoid

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When exposed to high temperatures may produce hazardous decomposition products.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Carbon monoxide and dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

No data available.

The mixture has been assessed following the conventional method of the Classification, Labelling and Packaging of Substances and Mixtures Regulation (EC) No. 1272/2008, (CLP) and classified for toxicological hazards accordingly.

11.1. Information on toxicological effects

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

The liquid splashed in the eyes may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhoea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not allow to enter drains or watercourses.

Residues in empty containers should be neutralised with decontaminant.

European List of Waste classification

Waste code: Name of Waste (according to Commission Decision 2000/532/EC):

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information contact your local waste authority.

Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

SECTION 14: Transport information



14.1 UN number:	1263
14.2 UN proper shipping name	PAINT
14.3 Transport hazard class(es)	3
14.4 Packing group	II
14.5 Environmental hazards	None.
14.6 Special precautions for user	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.
ADR Tunnel Restriction Code	(D/E)
IMDG EmS	F-E, S-E
IMDG Stowage Category	A
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable.

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SECTION 15: Regulatory information

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

The information in this Safety Data Sheet is required pursuant to:

Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No. 1907/2006, (REACH).
Classification, Labelling and Packaging of substances and mixtures, Regulation (EC) No. 1272/2008, (CLP).
The Dangerous Substances and Explosive Atmosphere Regulations, 2002, (DSEAR).
The Control of Substances Hazardous to Health Regulations, 2002, (COSHH).
The Health and Safety at work etc Act, 1974, (HSWA)

Approved codes of Practice and Guidance notes relevant to this Safety Data Sheet:

The European Chemicals Agency (ECHA) Guidance on the compilation of safety data sheets, Version 2.1.
CEPE Guideline for Safety Data Sheets, 9th Edition.
HSE Approved Code of Practice and Guidance, Dangerous Substances and Explosive Atmospheres.
HSE guidance note, Chemical Warehousing: The Storage of Packaged Dangerous Substances.
HSE publication, EH40/2005 Workplace exposure limits.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

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

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.
H336D : May cause drowsiness or dizziness.
H373 : May cause damage to organs through prolonged or repeated exposure.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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SAFETY DATA SHEET – Part.2

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 453/2010

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

1.1. Product identifier

Product Name	Spectrum FloorCote X335 Two Pack Polyurethane Paint Graphite Black
Product Inclusion	Part.2 of this document covers Spectrum FloorCote X335 Two Pack Polyurethane Paint Graphite Black. Catalyst only.
Container Size	0.8L

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

Identified Uses	See technical data sheet. For professional use only.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Meon Ltd. Railside Northharbour Spur Portsmouth PO6 3TU +44 (0) 23 9220 0606 mail@meonuk.com
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1.4. Emergency Telephone Number

Emergency telephone	+44 (0) 808 118 1922
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SECTION 2: Hazards identification

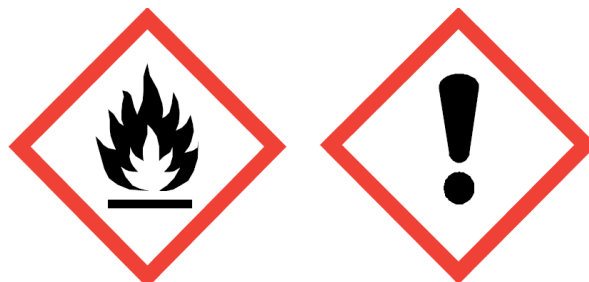
2.1. Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

Flam. Liq. 3 - H226
Skin Sens. 1 - H317
Acu. Tox. 4 – H332
STOT - SE. 3 –H335 & SE. 3 – H336

2.2. Label Elements

Hazard pictograms



**Spectrum FloorCote X335 Two Pack Polyurethane Paint Graphite Black
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Signal word	Warning
Named Chemicals on Label	
Contains	
H-statement(s)	H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness..
P-statement(s)	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust, fume, gas, mist, vapours or spray. P280 Wear protective gloves, protective clothing, eye protection and face protection. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P370+P378 In case of fire: Use alcohol-resistant foam to extinguish. P403+P235 Store in a well-ventilated place. Keep cool.
Supplemental hazard information	EUH066 Repeated exposure may cause skin dryness or cracking. EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

Results of PBT and vPvB assessment:

PBT and vPvB not applicable.

SECTION 3: Composition/information on ingredients

SUBSTANCE [] MIXTURE [X]

Description of mixture

Mixture of resins, solvents, pigments and additives.

Dangerous component(s)

Ingredient	Cas-No: EC No: Reach No:	CLP Hazard Statements	Concentration
Hexamethylene diisocyanate, oligomers	28182-81-2 500-060-2 01-2119485796-17	H317, H332, H335	50-99.9%
N-butyl acetate	123-86-4 204-658-1 01-2119485493-29	H226, H336,	25-50%
Hexamethylene-di-isocyanate	822-06-0 212-485-8 01-2119457571-37	H315, H317, H319. H331, H334, H335	0.1-1.0%

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

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SECTION 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

4.1. Description of first aid measures

General notes	In case of doubt, or symptom persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.
In case of inhalation:	Move the exposed person to fresh air at once. Keep person warm and at rest. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact:	Remove contaminated clothing immediately and wash skin with soap and water. Do not use solvents or thinners.
In case of eye contact:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
In case of ingestion:	If accidentally swallowed rinse mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do not induce vomiting.
Self-protection of the first aider:	None.

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

None.

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

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam, CO ₂ , powders, water spray/mist.
Unsuitable extinguishing media	Water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazard	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.
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5.3. Advice for firefighters

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or watercourses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth.

Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume) : water (45 parts), ethanol or isopropyl alcohol (50 parts), concentrated (d=0.880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts), water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in nonsealed container. Once this stage is reached, close container and dispose according to local regulations (see Section 13).

6.4. Reference to other sections

None.

SECTION 7: Handling and storage

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this mixture is used. Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

7.1. Precautions on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been included. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Care should be taken when re-opening partly used containers. Precautions should be taken to minimise exposure to atmospheric humidity or water: CO₂ will be formed which in closed containers can result in pressurisation. Isolate from sources of heat, sparks and open flame, no sparking tools should be used, avoid skin and eye contact, avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture and avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in application area, for personal protection see Section 8, never use pressure to empty: container is not a pressure vessel, always keep in containers of same material as the original one, comply with the health and safety at work laws and do not allow to enter drains or watercourses.

Advice on protection against fire and explosion

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in accordance with the Dangerous Substances and Explosive Atmospheres Regulations, 2002, (DSEAR).

The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR.

Notes on joint storage

Store away from oxidising agents, from strongly alkaline and strongly acid materials as well as amines, alcohols and water.

Additional information on storage conditions

Observe label precautions. Store between 5 °C and 25°C in a dry well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. The principles contained in the HSE guidance note, Chemical Warehousing: The Storage of Packaged Dangerous Substances, should be observed when storing this product.

7.3. Specific end uses

None.

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SECTION 8: Exposure controls/personal protection

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this mixture is used. Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

8.1. Control parameters

Ingredients with Occupational Exposure Limits

(UK WELS)

Name	Physical state	LTEL – 8hr TWA		STEL – 15min		Notes
		ppm	mg/m ³	ppm	mg/m ³	
Hexamethylene diisocyanate, oligomers			0.02		0.07	
n-butyl acetate		150	200	966	724	
Hexamethylene di-isocyanate			0.02		0.07	

LTEL - Long Term Exposure Limit, STEL - Short Term Exposure Limit, TWA - Time-Weighted Average.

ppm - parts per million by volume, mg/m³ - milligrams per cubic metre.

BMGV - Biological Monitoring Guidance Values are given in Table 2 of EH40/2005 Workplace exposure limits.

Carc - Capable of causing cancer and/or heritable genetic damage.

Sen - Capable of causing occupational asthma.

Sk - Can be absorbed through the skin. Dermal absorption may lead to systemic toxicity.

8.2. Exposure controls

Engineering measures

Provide adequate ventilation. If exposure can not be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Air-fed protective respiratory equipment must be worn by spray operator. Suitable respiratory protection must be worn if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL. Dry sanding, flame cutting and/or welding of the dry paint film may give rise to dust and/or hazardous fumes. Wet sanding/flattening should be used whenever possible. If dry flattening is unavoidable air-fed respiratory protective equipment should be used. Under cool conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application.

Respiratory protection

When spraying: Air-fed respirator.

For operation other than spraying: Air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

Eye/face protection

Use safety eyewear designed to protect against splash of liquids.

Hand protection

For prolonged or repeated handling, use Polyvinyl Alcohol (PVA) OR Viton Rubber (FluorRubber). Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Other skin and body protection

Personnel should wear anti-static clothing made of natural fibre or high temperature resistant synthetic fibre.

Environmental exposure controls

Do not allow to enter drains or watercourses.

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[Part.1 Base | Part.2 Catalyst]

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Yellowish
Odour:	Fruity.
Odour threshold - Lower	7 ppm
- Higher	20 ppm
pH	Not determined.
Melting point/freezing point:	<-90°C
Initial boiling point and boiling range:	126 760mmHg
Flash point:	24°C
Evaporation rate	1 (BuAc=1)
Flammability/ explosive limits	
Lower(%):	1.2
Higher(%):	7.5
Vapour pressure:	1.5 kPa 20.0
Vapour density(air=1):	4.0
Relative density(g/ml):	1.02
Solubility:	Miscible with organic solvents.
Partition coefficient:	2.3
Auto ignition temperature:	415°C
Viscosity:	0.1 poise.
Explosive properties:	May form explosives mixture with air.
Oxidising properties:	Not determined

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product reacts slowly with water resulting in evolution of carbon dioxide.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials, amines, alcohols and water. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

10.4. Conditions to avoid

In a fire, hazardous decomposition products may be produced.

10.5. Incompatible materials

Uncontrolled exothermic reactions occur with amines and alcohols.

10.6. Hazardous decomposition products

Smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.

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[Part.1 Base | Part.2 Catalyst]

SECTION 11: Toxicological information

There is no data available on the mixture itself.

The mixture has been assessed following the conventional method of the Classification, Labelling and Packaging of Substances and Mixtures Regulation (EC) No. 1272/2008, (CLP) and classified for toxicological hazards accordingly.

11.1. Information on toxicological effects

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin.

The liquid splashed in the eyes may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Ingestion may cause nausea, diarrhoea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest.

Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.

Repeated exposure may lead to permanent respiratory disability.

Repeated or prolonged skin contact may lead to allergic contact dermatitis.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

European List of Waste classification

Waste code: Name of Waste (according to Commission Decision 2000/532/EC):

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information contact your local waste authority. Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

SECTION 14: Transport information



14.1 UN number:	1263
14.2 UN proper shipping name	PAINT
14.3 Transport hazard class(es)	3
14.4 Packing group	II
14.5 Environmental hazards	No
14.6 Special precautions for user	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.
ADR Tunnel Restriction Code	(D/E)
IMDG EmS	F-E, S-E
IMDG Stowage Category	A
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable.

SECTION 15: Regulatory information

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

The information in this Safety Data Sheet is required pursuant to:

Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No.1907/2006, (REACH).

Classification, Labelling and Packaging of substances and mixtures, Regulation (EC) No.1272/2008, (CLP).

The Dangerous Substances and Explosive Atmosphere Regulations, 2002, (DSEAR).

The Control of Substances Hazardous to Health Regulations, 2002, (COSHH).

The Health and Safety at work etc Act, 1974, (HSWA)

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Approved codes of Practice and Guidance notes relevant to this Safety Data Sheet:

The European Chemicals Agency (ECHA) Guidance on the compilation of safety data sheets, Version 2.1.
CEPE Guideline for Safety Data Sheets, 9th Edition.
HSE Approved Code of Practice and Guidance, Dangerous Substances and Explosive Atmospheres.
HSE guidance note, Chemical Warehousing: The Storage of Packaged Dangerous Substances.
HSE publication, EH40/2005 Workplace exposure limits.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

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

H226 : Flammable liquid and vapour.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H319 : Causes serious eye irritation.

H331 : Toxic if inhaled.

H332 : Harmful if inhaled.

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 : May cause respiratory irritation.

H336 : May cause drowsiness or dizziness.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.