

Spectrum RoadLine X420 Two Pack Epoxy Paint
[Part.1 - Base | Part.2 - Activator]



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 RoadLine X420 Base For colours NOT containing lead chromate pigmentation.
Product Inclusion	This document covers Spectrum RoadLine X420 Base only
Container Size	3 litre and 15 litre

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

Identified Uses	Restricted to industrial and professional application only.
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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 Regulation (EC) No. 1272/2008, (CLP)

Flammable Liquids, Category 3	H226 - Flammable liquid and vapour.
Skin Irritation, Category 2	H315 - Causes skin irritation.
Skin Sensitisation, Category 1	H317 - May cause an allergic skin reaction.
Eye Irritation, Category 2	H319 - Causes serious eye irritation.
Acute Toxicity, Category 4	H332 - Harmful if inhaled.
Specific Target Organ Toxicity, Single Exposure, Category 3	H335 - May cause respiratory irritation.
Specific Target Organ Toxicity, Repeated Exposure, Category 2	H373 - May cause damage to organs through prolonged or repeated exposure.

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2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008, (CLP)

Hazard pictograms



Signal word

Warning

Hazard statement(s)

H226 - Flammable liquid and vapour.
 H315 - Causes skin irritation.
 H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation.
 H332 - Harmful if inhaled.
 H335 - May cause respiratory irritation.

Precautionary statement(s)

H373 - May cause damage to organs through prolonged or repeated exposure.
 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.
 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

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT Not applicable.
 vPvB Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substances Not applicable.

3.2. Mixtures

Description of the mixture Mixture of resins, solvents, pigments and additives.

Hazardous components

Chemical name	CAS No.	EC No.	REACH Registration No.	Classification	% [weight]
epichlorohydrin/bisphenol-a epoxy resin	25036-25-3	201-245-8	01-2119457856-23	H315, H317, H319	25 - 50
xylene	1330-20-7	215-535-7	01-2119488216-32	H226, H304, H312, H315, H319, H332, H335, H373	10 - 25

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1-methoxy-2-propanol	107-98-2	203-539-1	01-2119457435-35	H226, H336	2.5 - 10
ethylbenzene	100-41-4	202-849-4	01-2119489370-35	H225, H332 H304, H373	< 4.3

For the full text of the Hazard Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

General notes	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.
If inhaled	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.
If swallowed	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest.
In case of skin contact	Do NOT induce vomiting. Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. 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.
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

Flammable. Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Suitable extinguishing media	Alcohol resistant foam, CO2, powders and water spray/mist.
Unsuitable extinguishing media	Water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	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.

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6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for 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 (see Section 13).
Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

None.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

Advice 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 excluded.
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.
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.
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.

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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 use(s)

Specific end use(s) None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Limits for occupational exposure and/or biological limit values.

Chemical name	Physical state	LTEL - 8hr TWA		STEL - 15min		Notes
		ppm	mg/m ³	ppm	mg/m ³	
xylene		50	220	100	441	Sk, BMGV
1-methoxy-2-propanol		100	375	150	560	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

Appropriate engineering controls

Provide adequate ventilation.

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

If these are not sufficient to maintain concentrations of particles and solvent vapour below the OEL, suitable respiratory protection must be worn.

Eye protection

Use safety eyewear designed to protect against splash of liquids.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling, use Polyvinyl Alcohol (PVA) or Viton Rubber (FluorRubber).

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Skin protection

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

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Respiratory protection	If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.
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 - Physical state	Viscous liquid.
- Colour	Various.
Odour	Aromatic hydrocarbons.
Odour threshold - Lower	Not determined.
- Higher	Not determined.
pH	Not determined.
Melting point/freezing point (°C)	>-95
Initial boiling point and range (°C)	119 - 140
Flash point (°C)	25
Evaporation rate	Not determined.
Flammability/explosive limits	
Lower (%)	Not determined.
Higher (%)	Not determined.
Vapour pressure	>0.82 kPa
Vapour density (air=1)	Heavier than air.
Relative density (g/ml)	1.25 - 1.34
Solubility(ies)	Miscible with organic solvents.
Partition coefficient	Not determined.
Auto-ignition temperature (°C)	>287
Decomposition temperature (°C)	Not determined.
Viscosity	~2.0 poise.
Explosive properties	May form explosive mixtures with air.
Oxidising properties	Not determined.

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. (See Section 7).

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

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10.5. Incompatible materials

Materials to avoid No data available.

10.6. Hazardous decomposition products

Carbon monoxide and dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

There are 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. See Sections 2 and 3 for details.

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, diarrhea 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

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

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.

SECTION 13: Disposal considerations

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

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13.1. Waste treatment methods

Do not allow to enter drains or watercourses.

The European List of Waste classification of this product, when disposed of as waste, is 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

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for Air Transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

14.1. UN number

ADR/RID/ADN	1263
IMDG	1263
ICAO	1263

14.2. UN proper shipping name

UN proper shipping name	PAINT
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label number	3
IMDG Class	3
ICAO Class/Division	3
Transport labels	



14.4. Packing group

ADR/RID/ADN	III
IMDG	III
ICAO	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant	None.
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14.6. Special precautions for user

ADR Tunnel Restriction Code	(D/E)
IMDG EmS	F-E, S-E
IMDG Stowage Category	A

Always transport in closed containers that are upright and secure.

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Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

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 Atmospheres 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

Chemical safety assessment No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Full text of Hazard Statements referred to in Section 3.	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. H317 - May cause an allergic skin reaction. 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.
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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. 1. Product identifier

Product Name	Spectrum RoadLine X420 Activator
Product Inclusion	This document covers Spectrum RoadLine X420 Activator only
Container Size	1 litre and 5 litre

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

Identified Uses	Restricted to industrial and professional application only.
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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 Regulation (EC) No. 1272/2008, (CLP)

Flammable Liquids, Category 3	H226 - Flammable liquid and vapour.
Acute Toxicity, Category 4	H312 - Harmful in contact with skin.
Skin Irritation, Category 2	H315 - Causes skin irritation.
Eye Damage, Category 1	H318 - Causes serious eye damage.
Acute Toxicity, Category 4	H332 - Harmful if inhaled.
Specific Target Organ Toxicity, Single Exposure, Category 3	H335 - May cause respiratory irritation.
Specific Target Organ Toxicity, Repeated Exposure, Category 2	H373 - May cause damage to organs through prolonged or repeated exposure.

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008, (CLP)

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Hazard pictograms



Signal word

Danger

Hazard statement(s)

H226 - Flammable liquid and vapour.
 H312 - Harmful in contact with skin.
 H315 - Causes skin irritation.
 H318 - Causes serious eye damage.
 H332 - Harmful if inhaled.
 H335 - May cause respiratory irritation.
 H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 - Wear protective gloves, protective clothing, eye protection and face protection.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 - Immediately call a POISON CENTRE or doctor.
 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 None.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT Not applicable.
 vPvB Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substances Not applicable.

3.2. Mixtures

Description of the mixture Mixture of resins, solvents, pigments and additives.

Hazardous components

Chemical name	CAS No.	EC No.	REACH Registration No.	Classification	% [weight]
xylene	1330-20-7	215-535-7	01-2119488216-32	H226, H304, H312, H315, H319, H332, H335, H373	50 - 99.9
n-butanol	71-36-3	200-751-6	01-2119484630-38	H226, H302, H315, H318, H335, H336	2.5 - 10

For the full text of the Hazard Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

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4.1. Description of first aid measures

General notes	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.
If inhaled	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.
If swallowed	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest.
In case of skin contact	Do NOT induce vomiting. Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser.
In case of eye contact	Do NOT use solvents or thinners. Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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

Flammable. Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	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

Advice for firefighters	Cool closed containers exposed to fire with water. Do not allow run-off from fire-fighting to enter drains or watercourses.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

Environmental precautions	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.
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6.3. Methods and material for containment and cleaning up

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Methods for 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 (see Section 13).
Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Reference to other sections None.

SECTION 7: Handling and storage

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions on safe handling

Advice 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 excluded.
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.
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.
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 use(s)

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Specific end use(s) None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Limits for occupational exposure and/or biological limit values.

Chemical name	Physical state	LTEL - 8hr TWA		STEL - 15min		Notes
		ppm	mg/m ³	ppm	mg/m ³	
xylene		50	220	100	441	Sk, BMGV
n-butanol				50	154	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

Appropriate engineering controls

Provide adequate ventilation.
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
If these are not sufficient to maintain concentrations of particles and solvent vapour below the OEL, suitable respiratory protection must be worn.

Eye protection

Use safety eyewear designed to protect against splash of liquids.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
For prolonged or repeated handling, use Polyvinyl Alcohol (PVA) or Viton Rubber (FluorRubber).
The breakthrough time must be greater than the end use time of the product.
The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
Gloves should be replaced regularly and if there is any sign of damage to the glove material.
Always ensure that gloves are free from defects and that they are stored and used correctly.
The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Skin protection

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

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

Environmental exposure controls

Do not allow to enter drains or watercourses.

SECTION 9: Physical and Chemical Properties

Spectrum RoadLine X420 Two Pack Epoxy Paint [Part.1 - Base | Part.2 - Activator]

9.1. Information on basic physical and chemical properties

Appearance - Physical state	Liquid.
- Colour	Dark.
Odour	Mild.
Odour threshold - Lower	Not determined.
- Higher	Not determined.
pH	> 7.
Melting point/freezing point (°C)	Not determined
Initial boiling point and range (°C)	123.89
Flash point (°C)	25
Evaporation rate	Not determined.
Flammability/explosive limits	
Lower (%)	Not determined.
Higher (%)	Not determined.
Vapour pressure	< 10.34 mmHg 21
Vapour density (air=1)	Heavier than air.
Relative density (g/ml)	0.94 21
Solubility(ies)	Miscible with organic solvents.
Partition coefficient	Not determined.
Auto-ignition temperature (°C)	Not determined.
Decomposition temperature (°C)	Not determined.
Viscosity	Not determined.
Explosive properties	May form explosive mixtures with air.
Oxidising properties	Not determined.

9.2. Other information

Other information	None.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No data available.
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10.2. Chemical stability

Stability	Stable under recommended storage and handling conditions. (See Section 7).
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10.3. Possibility of hazardous reactions

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

Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition products.
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10.5. Incompatible materials

Materials to avoid	No data available.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Carbon monoxide and dioxide, smoke, oxides of nitrogen.
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SECTION 11: Toxicological information

There are no data available on the mixture itself.

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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.
See Sections 2 and 3 for details.

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, diarrhea 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

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

12.1. Toxicity

Toxicity No data available.

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available.

12.4. Mobility in soil

Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

Other adverse effects No data available.

SECTION 13: Disposal considerations

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not allow to enter drains or watercourses.

The European List of Waste classification of this product, when disposed of as waste, is

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.

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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

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for Air Transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

14.1. UN number

ADR/RID/ADN	1263
IMDG	1263
ICAO	1263

14.2. UN proper shipping name

UN proper shipping name	PAINT
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label number	3
IMDG Class	3
ICAO Class/Division	3
Transport labels	



14.4. Packing group

ADR/RID/ADN	III
IMDG	III
ICAO	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant	None.
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14.6. Special precautions for user

ADR Tunnel Restriction Code	(D/E)
IMDG EmS	F-E, S-E
IMDG Stowage Category	A

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.

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

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

Spectrum RoadLine X420 Two Pack Epoxy Paint

[Part.1 - Base | Part.2 - Activator]

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 Atmospheres 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

Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Full text of Hazard Statements referred to in Section 3.

H226 - Flammable liquid and vapour.
H302 - Harmful if swallowed.
H304 - May be fatal if swallowed and enters airways.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
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.

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.