# A Quest Automotive Brand

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** Single Layer Binder

Other means of identification

**Product Code** SCB-408-3

Recommended use Automotive Refinish Toner Binder

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Pro-Spray Automotive Finishes Limited Company name

Unit H, Normandy Lane, Stratton Business Park **Address** 

Biggleswade, Bedfordshire SG18 8QB United Kingdom

United Kingdom

**General Information** Telephone +44 (0) 1767 314320

Website prosprayfinishes.com E-mail colour@pro-spray.co.uk

**Emergency phone number** Office hours only +44 (0) 1767 314320

# 2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, dermal	Category 4
	Acute toxicity, inhalation	Category 3
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
	Carcinogenicity	Category 2
	Reproductive toxicity (fertility)	Category 2
	Specific target organ toxicity, repeated	Category 1

exposure Hazardous to the aquatic environment, acute **Environmental hazards** Category 2

Hazardous to the aquatic environment, Category 2

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Highly flammable liquid and vapor. Harmful in contact with skin. Causes skin irritation. May cause **Hazard statement** 

an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. Suspected of causing cancer. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated

exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the

environment. Wear protective gloves/protective clothing/eye protection/face protection. Material name: Single Layer Binder SDS US Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

57.66% of the mixture consists of component(s) of unknown acute dermal toxicity. 47.79% of the mixture consists of component(s) of unknown acute inhalation toxicity. 47.76% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 47.76% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Xylene		1330-20-7	30 to <40
Ethyl benzene		100-41-4	5 to <10
n-butyl acetate		123-86-4	5 to <10
Methyl methacrylate		80-62-6	0.1 to <1
Other components below reportal	ole levels		40 to <50

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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# Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

# Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

## **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Use appropriate containment to avoid environmental contamination.

# 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

# Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

Ethyl benzene (CAS   PEL   435 mg/m3   100-41-4)   100 ppm   Methyl methacrylate (CAS   PEL   410 mg/m3   100 ppm   150 ppm	Components	Type	Value
Methyl methacrylate (CAS 80-62-6)     PEL     410 mg/m3       n-butyl acetate (CAS 123-86-4)     PEL     710 mg/m3       Xylene (CAS 1330-20-7)     PEL     435 mg/m3 100 ppm       US. ACGIH Threshold Limit Values     Type     Value       Components     TWA     20 ppm       Ethyl benzene (CAS 100-41-4)     100 ppm       Methyl methacrylate (CAS 80-62-6)     STEL     100 ppm       n-butyl acetate (CAS 1330-20-7)     STEL     200 ppm       123-86-4)     TWA     150 ppm       Xylene (CAS 1330-20-7)     STEL     150 ppm       US. NIOSH: Pocket Guide to Chemical Hazards     Type     Value       Components     Type     Value       Ethyl benzene (CAS 100-41-4)     125 ppm       TWA 435 mg/m3 100 ppm     125 ppm       Methyl methacrylate (CAS 100 ppm     100 ppm       Methyl methacrylate (CAS 100 ppm     100 ppm       n-butyl acetate (CAS 100 ppm     100 ppm       100 ppm     100 ppm       100 ppm     100 ppm       100 ppm     100 ppm <td></td> <td>PEL</td> <td>•</td>		PEL	•
80-62-6)  n-butyl acetate (CAS 123-86-4)  Xylene (CAS 1330-20-7)  PEL 435 mg/m3 100 ppm  Walue  Components Type Value  Ethyl benzene (CAS 1330-20-7)  TWA 150 ppm  Xylene (CAS 1330-20-7)  TWA 150 ppm  TWA 150 ppm  TWA 150 ppm  US. ACGIH Threshold Limit Values  TWA 20 ppm  100-41-4)  Methyl methacrylate (CAS 8 TEL 100 ppm  N-butyl acetate (CAS 1530-20-7)  TWA 150 ppm  TWA 150 ppm  TWA 150 ppm  US. NIOSH: Pocket Guide to Chemical Hazards  Components Type Value  Ethyl benzene (CAS 1530-20-7)  TWA 155 ppm  TWA 150 ppm  US. NIOSH: Pocket Guide to Chemical Hazards  Components Type Value  Ethyl benzene (CAS 155 ppm  TWA 155 ppm  TWA 150 ppm  TWA 150 ppm  TWA 150 ppm  TWA 100 ppm  US. NIOSH: Pocket Guide to Chemical Hazards  Components Type Value  Ethyl benzene (CAS 155 ppm  TWA 155 ppm  100 ppm  Methyl methacrylate (CAS 155 ppm  Methyl methacrylate (CAS 155 ppm  Nethyl methacrylate (CAS 155 ppm  TWA 100 ppm  Methyl methacrylate (CAS 155 ppm  TWA 100 ppm  Nethyl acetate (CAS 150 ppm  TWA 100 ppm			100 ppm
n-butyl acetate (CAS 1330-20-7) PEL 150 ppm  Xylene (CAS 1330-20-7) PEL 435 mg/m3 100 ppm  US. ACGIH Threshold Limit Values Components Type Value  Ethyl benzene (CAS 100-41-4)		PEL	410 mg/m3
123-86-4)  Xylene (CAS 1330-20-7)  PEL  150 ppm  435 mg/m3 100 ppm  US. ACGIH Threshold Limit Values Components  Type  Value  Ethyl benzene (CAS 100-41-4)  Methyl methacrylate (CAS 8TEL 100 ppm  1WA 150 ppm 1WA 150 ppm 1WA 150 ppm 1WA 150 ppm 1WA 150 ppm 1WA 150 ppm 1WA 150 ppm 1WA 150 ppm 1WA 100 ppm  US. NIOSH: Pocket Guide to Chemical Hazards Components  Type  Value  Ethyl benzene (CAS 1TWA 100 ppm  US. NIOSH: Pocket Guide to Chemical Hazards Components  Type  Value  Ethyl benzene (CAS 1TWA 100 ppm  Methyl methacrylate (CAS 1TWA 435 mg/m3 100 ppm  Methyl methacrylate (CAS 8TEL 950 mg/m3  100 ppm  Methyl methacrylate (CAS 8TEL 950 mg/m3  100 ppm  n-butyl acetate (CAS 1TWA 100 ppm  TWA 100 ppm			100 ppm
August		PEL	710 mg/m3
US. ACGIH Threshold Limit Values Components Type Value  Ethyl benzene (CAS 100-41-4) Methyl methacrylate (CAS 80-62-6) TWA 100-butyl acetate (CAS 123-86-4) TWA 150 ppm 150 pp			150 ppm
US. ACGIH Threshold Limit Values   Type   Value	Xylene (CAS 1330-20-7)	PEL	435 mg/m3
Components         Type         Value           Ethyl benzene (CAS 100-41-4)         TWA 20 ppm           Methyl methacrylate (CAS 80-62-6)         TWA 50 ppm           n-butyl acetate (CAS 123-86-4)         TWA 150 ppm           Xylene (CAS 1330-20-7)         STEL 150 ppm           US. NIOSH: Pocket Guide to Chemical Hazards         Type         Value           Ethyl benzene (CAS 100-41-4)         STEL 545 mg/m3 100-41-41         125 ppm           Methyl methacrylate (CAS 100 ppm         TWA 435 mg/m3 100 ppm         100 ppm           Methyl methacrylate (CAS 80-62-6)         TWA 410 mg/m3 100 ppm         100 ppm           n-butyl acetate (CAS 123-86-4)         STEL 950 mg/m3 100 ppm         100 ppm           n-butyl acetate (CAS 123-86-4)         TWA 710 mg/m3         200 ppm			100 ppm
Components         Type         Value           Ethyl benzene (CAS 100-41-4)         TWA 20 ppm           Methyl methacrylate (CAS 80-62-6)         TWA 50 ppm           n-butyl acetate (CAS 123-86-4)         TWA 150 ppm           Xylene (CAS 1330-20-7)         STEL 150 ppm           US. NIOSH: Pocket Guide to Chemical Hazards         Type         Value           Ethyl benzene (CAS 100-41-4)         STEL 545 mg/m3 100-41-41         125 ppm           Methyl methacrylate (CAS 80-62-6)         TWA 435 mg/m3 100 ppm         100 ppm           Methyl methacrylate (CAS 80-62-6)         TWA 950 mg/m3 100 ppm         100 ppm           n-butyl acetate (CAS 123-86-4)         STEL 950 mg/m3 100 ppm         100 ppm           n-butyl acetate (CAS 123-86-4)         TWA 710 mg/m3         200 ppm	US. ACGIH Threshold Limit Value	<b>9</b> S	
100-41-4			Value
Methyl methacrylate (CAS 80-62-6)         STEL         100 ppm           80-62-6)         TWA         50 ppm           n-butyl acetate (CAS 123-86-4)         TEL         200 ppm           123-86-4)         TWA         150 ppm           Xylene (CAS 1330-20-7)         STEL 150 ppm         150 ppm           US. NIOSH: Pocket Guide to Chemical Hazards         Value           Components         Type         Value           Ethyl benzene (CAS 100-41-4)         545 mg/m3 100 ppm           100-41-4)         125 ppm 100 ppm           Methyl methacrylate (CAS 100 ppm 10		TWA	20 ppm
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n-butyl acetate (CAS 123-86-4)       STEL       200 ppm         123-86-4)       TWA       150 ppm         Xylene (CAS 1330-20-7)       STEL 150 ppm         TWA       100 ppm         US. NIOSH: Pocket Guide to Chemical Hazards       Value         Components       Type       Value         Ethyl benzene (CAS 100-41-4)       545 mg/m3         100-41-4)       125 ppm         TWA 435 mg/m3 100 ppm       100 ppm         Methyl methacrylate (CAS 80-62-6)       TWA 410 mg/m3         n-butyl acetate (CAS 123-86-4)       STEL 950 mg/m3         123-86-4)       200 ppm         TWA 710 mg/m3	,	TWA	50 ppm
TWA   150 ppm		STEL	
Xylene (CAS 1330-20-7)       STEL TWA       150 ppm         US. NIOSH: Pocket Guide to Chemical Hazards       Value         Components       Type       Value         Ethyl benzene (CAS 100-41-4)       545 mg/m3         100-41-4)       125 ppm         TWA       435 mg/m3 100 ppm         Methyl methacrylate (CAS 80-62-6)       TWA       410 mg/m3         n-butyl acetate (CAS 123-86-4)       STEL 950 mg/m3         123-86-4)       200 ppm         TWA       710 mg/m3	,	TWA	150 ppm
US. NIOSH: Pocket Guide to Chemical Hazards Components  Type  Value  Ethyl benzene (CAS 100-41-4)  TWA  TWA  435 mg/m3 100 ppm  Methyl methacrylate (CAS 8TEL  TWA  410 mg/m3 80-62-6)  n-butyl acetate (CAS 123-86-4)  TWA  TWA  TWA  100 ppm	Xylene (CAS 1330-20-7)	STEL	
Components         Type         Value           Ethyl benzene (CAS 100-41-4)         STEL         545 mg/m3           100-41-4)         125 ppm           TWA         435 mg/m3 100 ppm           Methyl methacrylate (CAS 80-62-6)         TWA         410 mg/m3           n-butyl acetate (CAS 123-86-4)         STEL         950 mg/m3           123-86-4)         TWA         710 mg/m3	,	TWA	
Components         Type         Value           Ethyl benzene (CAS 100-41-4)         STEL         545 mg/m3           100-41-4)         125 ppm           TWA         435 mg/m3 100 ppm           Methyl methacrylate (CAS 80-62-6)         TWA         410 mg/m3           n-butyl acetate (CAS 123-86-4)         STEL         950 mg/m3           123-86-4)         TWA         710 mg/m3	US NIOSH: Pocket Guide to Cher	mical Hazards	.,
100-41-4)  TWA  TWA  435 mg/m3  100 ppm  100 ppm  Methyl methacrylate (CAS  80-62-6)  TWA  100 ppm  100 ppm  100 ppm  100 ppm  200 ppm  TWA  TWA  TWA  TWA  TWA  TWA  TWA  TW			Value
125 ppm  TWA 435 mg/m3 100 ppm  Methyl methacrylate (CAS TWA 410 mg/m3 80-62-6)  n-butyl acetate (CAS STEL 950 mg/m3 123-86-4)  TWA 710 mg/m3		STEL	545 mg/m3
TWA 435 mg/m3 100 ppm  Methyl methacrylate (CAS TWA 410 mg/m3 80-62-6) 100 ppm  n-butyl acetate (CAS STEL 950 mg/m3 123-86-4) 200 ppm  TWA 710 mg/m3	,		125 ppm
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200 ppm TWA 710 mg/m3		STEL	
	·		200 ppm
150 ppm		TWA	710 mg/m3
			150 ppm

#### **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time	
Ethyl benzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*	
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

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SDS US

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# Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

supplier.

Wear appropriate chemical resistant clothing. Other

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. Liquid. **Form** Color Milky. Odor Solvent. **Odor threshold** Not available. Not available. Not available. Melting point/freezing point

Initial boiling point and boiling

range

258.98 °F (126.1 °C) estimated

55.0 °F (12.8 °C) estimated Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

1.2 % estimated

(%)

Flammability limit - upper

7.5 % estimated

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

11.89 hPa estimated Vapor pressure

Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Not available. **Partition coefficient** 

(n-octanol/water)

797 °F (425 °C) estimated **Auto-ignition temperature** 

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

8.20 lbs/gal Density

Material name: Single Layer Binder

Flammability class Flammable IB estimated

Percent volatile 52 % estimated

Specific gravity 0.99

VOC 4.3 lb/gal Material

> 4.3 lb/gal Coating 511 g/l Material 511 g/l Coating

# 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. **Chemical stability** Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Strong acids. Strong oxidizing agents. Nitrates. Halogens. Incompatible materials

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

## 11. Toxicological information

# Information on likely routes of exposure

Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure by Inhalation

inhalation.

Skin contact Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis, Rash.

## Information on toxicological effects

**Acute toxicity** Toxic if inhaled. Harmful in contact with skin. May cause an allergic skin reaction.

Components Species rest Results	Components	Species	Test Results
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Ethyl benzene (CAS 100-41-4)

**Acute Dermal** 

LD50 Rabbit 17800 mg/kg

Oral

LD50 Rat 3500 mg/kg

Methyl methacrylate (CAS 80-62-6)

**Acute** 

Inhalation

LC50 Mouse 18.5 mg/l, 2 Hours

> Rat 3750 ppm, 8 Hours

Oral

LD50 Mouse 5.5 ml/kg

> Rabbit 6000 mg/kg Rat 7800 mg/kg

n-butyl acetate (CAS 123-86-4)

**Acute** 

Inhalation

LC50 Wistar rat 160 mg/l, 4 Hours

Oral

LD50 Rat

Material name: Single Layer Binder

14000 mg/kg

Components Species Test Results

Xylene (CAS 1330-20-7)

<u>Acute</u>

Dermal

LD50 Rabbit > 43 g/kg

Inhalation

LC50 Mouse 3907 mg/l, 6 Hours

Rat 6350 mg/l, 4 Hours

Oral

LD50 Mouse 1590 mg/kg

Rat 3523 - 8600 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye Causes serious eye irritation.

irritation

Respiratory or skin sensitization

**ACGIH** sensitization

Methyl methacrylate (CAS 80-62-6) Sensitizer.

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethyl benzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

Methyl methacrylate (CAS 80-62-6)

Xylene (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals. Suspected of damaging fertility.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Ethyl benzene (CAS 1	00-41-4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
Methyl methacrylate (	CAS 80-62-6)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	136.3 - 183.4 mg/l, 96 hours
n-butyl acetate (CAS	123-86-4)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	17 - 19 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Components Species Test Results

Xylene (CAS 1330-20-7)

**Aquatic** 

Fish LC50 Bluegill (Lepomis macrochirus) 7.711 - 9.591 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethyl benzene 3.15
Methyl methacrylate 1.38
n-butyl acetate 1.78
Xylene 3.12 - 3.2

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

DOT

UN number UN1263

UN proper shipping name Paint, Paint Related Material

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group II
Environmental hazards

Marine pollutant No

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB2, T7, TP1, TP8, TP28

Packaging exceptions 150
Packaging non bulk 202
Packaging bulk 242

IATA

UN number UN1263

UN proper shipping name Paint, Paint Related Material

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards No
ERG Code 3H

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Other information

Passenger and cargo Allowed.

aircraft

Cargo aircraft only Allowed.

**IMDG** 

UN number UN1263

UN proper shipping name Paint, Paint Related Material

Transport hazard class(es)

Class 3
Subsidiary risk Packing group ||
Environmental hazards

Marine pollutant No EmS F-E,  $\underline{S}$ - $\underline{E}$ 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Ethyl benzene (CAS 100-41-4)

Methyl methacrylate (CAS 80-62-6)

n-butyl acetate (CAS 123-86-4)

Xylene (CAS 1330-20-7)

Listed.

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Material name: Single Layer Binder sps us

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

# SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Xylene	1330-20-7	30 to <40	
Ethyl benzene	100-41-4	5 to <10	
Methyl methacrylate	80-62-6	0.1 to <1	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Ethyl benzene (CAS 100-41-4) Methyl methacrylate (CAS 80-62-6)

Xylene (CAS 1330-20-7)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

# US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

#### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Ethyl benzene (CAS 100-41-4) Methyl methacrylate (CAS 80-62-6)

Xylene (CAS 1330-20-7)

## **US. Massachusetts RTK - Substance List**

Ethyl benzene (CAS 100-41-4) Methyl methacrylate (CAS 80-62-6) n-butyl acetate (CAS 123-86-4) Xylene (CAS 1330-20-7)

#### US. New Jersey Worker and Community Right-to-Know Act

Ethyl benzene (CAS 100-41-4) Methyl methacrylate (CAS 80-62-6) n-butyl acetate (CAS 123-86-4) Xylene (CAS 1330-20-7)

# US. Pennsylvania Worker and Community Right-to-Know Law

Ethyl benzene (CAS 100-41-4) Methyl methacrylate (CAS 80-62-6) n-butyl acetate (CAS 123-86-4) Xylene (CAS 1330-20-7)

#### **US. Rhode Island RTK**

Ethyl benzene (CAS 100-41-4) Methyl methacrylate (CAS 80-62-6) n-butyl acetate (CAS 123-86-4) Xylene (CAS 1330-20-7)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

# US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethyl benzene (CAS 100-41-4) Listed: June 11, 2004

Material name: Single Layer Binder

SCB-408-3 Version #: 01 Issue date: 04-23-2015

Lioted: darie 11, 2001

#### **International Inventories**

Country(s) or region Inventory name On inventory (yes/no)\*

Canada Domestic Substances List (DSL) Yes

Europe European Inventory of Existing Commercial Chemical Yes

Substances (EINECS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

**Issue date** 04-23-2015

Version # 01

**HMIS® ratings** Health: 3\*

Flammability: 3 Physical hazard: 0

NFPA ratings Health: 3

Flammability: 3 Instability: 0

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently

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material will infringe any such patents, and for obtaining any required licenses.

Material name: Single Layer Binder sps us