# **SAFETY DATA SHEET**

Date of issue/Date of revision 1 November 2017 Version 11

Section 1. Identification	
Product name	: MAP COPPER
Product code	: 46253SP
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of t	the substance or mixture and uses advised against
Product use	: Industrial applications.
Use of the substance/ mixture	: Coating. Paints. Painting-related materials.
Uses advised against	: Not applicable.
Manufacturer	: Matthews Paint Company 760 Pittsburgh Drive Delaware, OH 43015
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)
Technical Phone Number	: 1-800-323-6593

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), hearing organs, kidneys, liver) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 39.9% (Oral), 41.6% (Dermal), 71.8% (Inhalation)</li> </ul>

#### GHS label elements

Product name MAP COPPER

# Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Fighly flammable liquid and vapor. Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. Suspected of damaging the unborn child. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS), hearing organs, kidneys, liver)</li> </ul>
Precautionary statement	<u>s</u>
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

#### Substance/mixture

Product name

: Mixture

: MAP COPPER

Ingredient name	%	CAS number
isobutyl acetate	≥10 - ≤20	110-19-0
2-methoxy-1-methylethyl acetate	≥10 - ≤20	108-65-6
xylene	≥10 - ≤14	1330-20-7
toluene	≥5.0 - ≤10	108-88-3
Aluminium powder (stabilized)	≥1.0 - ≤5.0	7429-90-5
ethylbenzene	≥0.10 - ≤2.4	100-41-4
diiron trioxide	≥1.0 - ≤5.0	1309-37-1

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Most important sympton	oms/effects, acute and delayed
Potential acute health	<u>n effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: F armful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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# Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	<ul> <li>Decomposition products may include the following materials: carbon oxides metal oxide/oxides</li> </ul>

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# Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
sobutyl acetate	OSHA PEL (United States, 6/2016).
	TWA: 700 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
	ACGIH TLV (United States, 3/2017).
	STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
2-methoxy-1-methylethyl acetate	IPEL (PPG, 10/2017). Absorbed through
	skin.
	TWA: 30 ppm
	STEL: 90 ppm
xylene	ACGIH TLV (United States, 3/2017).
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	United States Page: 6/16

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### Section 8. Exposure controls/personal protection

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	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2017).
	TWA: 20 ppm 8 hours.
aluminium powder (stabilised)	ACGIH TLV (United States, 3/2017).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 6/2016).
	TWA: 5 mg/m <sup>3</sup> , (as Al) 8 hours. Form:
	Respirable fraction
	TWA: 15 mg/m <sup>3</sup> , (as Al) 8 hours. Form: Total
	dust
ethylbenzene	ACGIH TLV (United States, 3/2017).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
diiron triovida	TWA: 100 ppm 8 hours.
diiron trioxide	ACGIH TLV (United States, 3/2017).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 6/2016).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
Key to abbreviations	
A = Acceptable Maximum Peak	S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit	SS = Skin sensitization
F = Fume	STEL = Short term Exposure limit values
IPEL = Internal Permissible Exposure Limit OSHA = Occupational Safety and Health Administration.	TD = Total dust TLV = Threshold Limit Value
R = Respirable	TWA = Time Weighted Average
R = Respirable	

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

#### Consult local authorities for acceptable exposure limits.

**Recommended monitoring** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of procedures the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required. : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or Appropriate engineering other engineering controls to keep worker exposure to airborne contaminants below any controls recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. **United States** Page: 7/16

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# Section 8. Exposure controls/personal protection

Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection <u>Skin protection</u>	: Chemical splash goggles.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves: May be used: Chloroprene Not recommended: nitrile rubber Recommended: butyl rubber, polyvinyl alcohol (PVA), Viton®
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

# Section 9. Physical and chemical properties

		United States	Page: 8/16
Boiling point	: >37.78°C (>100°F)		
Melting point	: Not available.		
рН	: Not available.		
Odor threshold	: Not available.		
Odor	: Not available.		
Color	: Not available.		
Physical state	: Liquid.		
Appearance			

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# Section 9. Physical and chemical properties

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Flash point	1	Closed cup: 7.22°C (45°F)
Material supports combustion.	:	Yes.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Lower: 1.2%
Evaporation rate	1	1.12 (butyl acetate = 1)
Vapor pressure	1	1.6 kPa (12.2 mm Hg) [room temperature]
Vapor density	:	Not available.
Relative density	1	1.01
Density(lbs / gal)	1	8.43
Solubility	1	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	:	Not available.
Viscosity	1	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility	1	62% (v/v), 54.08% (w/w)
% Solid. (w/w)	1	45.92

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	<ul> <li>Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.</li> </ul>

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sobutyl acetate	LD50 Dermal	Rabbit	>17400 mg/kg	-
	LD50 Oral	Rat	13400 mg/kg	-
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	8532 mg/kg	-
xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
diiron trioxide	LD50 Oral	Rat	10 g/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
vylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summon					

<u>Conclusion/Summary</u>				
Skin	1	There are	e no data av	vailable on the mixture itself.
Eyes	1	There are	e no data av	vailable on the mixture itself.
Respiratory	1	There are	e no data av	vailable on the mixture itself.
Sensitization				
Conclusion/Summary				
Skin	1	There are	e no data av	vailable on the mixture itself.
Respiratory	1	There are	e no data av	vailable on the mixture itself.
<b>Mutagenicity</b>				
<b>Conclusion/Summary</b>	1	There are	e no data av	vailable on the mixture itself.
<b>Carcinogenicity</b>				
<b>Conclusion/Summary</b>	1	There are	e no data av	vailable on the mixture itself.
<b>Classification</b>				
Product/ingredient name		OSHA	IARC	NTP
<b>x</b> ylene		-	3	-
toluene		-	3	-
ethylbenzene		-	2B	-
diiron trioxide		-	3	-

Carcinogen Classification code:

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# Section 11. Toxicological information

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen
OSHA: +
Not listed/not regulated: -

#### Reproductive toxicity

Conclusion/Summary	: There are no data available on the mixture itself.
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#### **Teratogenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category
isobutyl acetate	Category 3
xylene	Category 3
toluene	Category 3

#### Specific target organ toxicity (repeated exposure)

Name	Category
xylene	Category 2
toluene	Category 2
ethylbenzene	Category 2

Target organs

: Contains material which causes damage to the following organs: brain, eye, lens or cornea.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, liver, heart, upper respiratory tract, skin, central nervous system (CNS), ears.

#### Aspiration hazard

Name	Result
toluene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact Inhalation Skin contact Ingestion Over-exposure signs/sympt	<ul> <li>Causes serious eye irritation.</li> <li>Farmful if inhaled. May cause respiratory irritation.</li> <li>Causes skin irritation. Defatting to the skin.</li> <li>No known significant effects or critical hazards.</li> </ul>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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# Section 11. Toxicological information

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
<b>Delayed and immediate effec</b>	ts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. Exposure to component solvent vapor concentrations 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 the kidneys, 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. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid 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.
Short term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health effe	icts
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
matagomony	-
Teratogenicity	: Suspected of damaging the unborn child.
	<ul><li>Suspected of damaging the unborn child.</li><li>No known significant effects or critical hazards.</li></ul>

# Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Øral	16960.4 mg/kg
Dermal	5131 mg/kg
Inhalation (gases)	8633.6 ppm
Inhalation (vapors)	22.39 mg/l
Inhalation (dusts and mists)	2.878 mg/l

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
P-methoxy-1-methylethyl acetate	Acute LC50 161 mg/l Fresh water	Fish	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>x</b> ylene	-	-	Readily
toluene	-	-	Readily
ethylbenzene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
sobutyl acetate	1.78	-	low
2-methoxy-1-methylethyl acetate	0.56	-	low
xylene	3.16	7.4 to 18.5	low
toluene	2.73	8.32	low
ethylbenzene	3.15	79.43	low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### 14. Transport information

	DOT	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	П	Ш	11
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	799.09	Not applicable.	Not applicable.
RQ substances	(xylene, toluene)	Not applicable.	Not applicable.

#### **Additional information**

**DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**IMDG** : None identified.

IATA : None identified.

# Special precautions for user : Transport within user's premises: 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.

### Section 15. Regulatory information

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#### United States

United States inventory (TSCA 8b) : All components are listed or exempted.

U.S. Federal regulations

#### SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

#### SARA 311/312

Classification

: Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

#### **Composition/information on ingredients**

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
isobutyl acetate	Yes.	No.	No.	Yes.	No.
2-methoxy-1-methylethyl acetate	Yes.	No.	No.	No.	No.
xylene	Yes.	No.	No.	Yes.	Yes.
toluene	Yes.	No.	No.	Yes.	Yes.
aluminium powder (stabilised)	Yes.	No.	No.	No.	No.
ethylbenzene	Yes.	No.	No.	Yes.	Yes.

	<b>SARA</b>	31	<u>3</u>
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Supplier notification	<ul> <li>Chemical name</li> <li>Kylene</li> <li>toluene</li> <li>Aluminium powder (stabilized)</li> <li>ethylbenzene</li> </ul>	<u>CAS number</u> 1330-20-7 108-88-3 7429-90-5 100-41-4	<u>Concentration</u> 7 - 13 5 - 10 1 - 5 1 - 5
	etnyidenzene	100-41-4	1-5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

#### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

# Section 16. Other information

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Hazardous Material Information System (U.S.A.)
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Health : 2 * Flammability : 3 Physical hazards : 0
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#### (\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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Product name MAP COPPER

### Section 16. Other information

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 2 Flamma Date of previous issue Organization that prepared the MSDS	mability : 3 Instability : 0 : 7/23/2017 d : EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.