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SAFETY DATA SHEET

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: **METAL COAT**

Product Description: **METAL PROTECTIVE COATING**

Other Means of Identification

Product # 156
Synonyms None

Details of the Supplier of the Safety Data Sheet

Company Name CHEMCO INDUSTRIES, INC.
5731 Manchester Avenue
St. Louis, MO 63110
www.chemcoindustries.com
314-647-1888
1-800-854-4236 (to Reorder)

Emergency Telephone Number

Emergency Telephone INFOTRAC 1-800-535-5053

2. HAZARDS IDENTIFICATION

Classification (GHS-US)

Flam. Liq. 3 H226
Asp. Tox. 1 H304
Skin Sens. 1 H317
Carc. 2 H351

*Full text of H-phrases: see section 16

GHS-US Labeling

Hazard pictograms (GHS-US):



Signal Word (GHS-US): **Danger**

Hazard Statements (GHS-US):

Flammable liquid and vapor
May be fatal if swallowed and enters airways
Suspected of causing cancer

Precautionary statements (GHS-US):

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood.
Keep away from heat, open flames, sparks. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment
Use explosion-proof electrical, lighting equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Avoid breathing mist, spray
Contaminated work clothing must not be allowed out of the workplace
Wear eye protection, protective clothing, protective gloves

If swallowed: Immediately call a doctor, a POISON CENTER
 If on skin: Wash with plenty of soap and water.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 If exposed or concerned: Get medical advice/attention.
 Specific treatment (see First aid measures on this label)
 Do NOT induce vomiting
 If skin irritation or rash occurs: Get medical advice/attention
 Take off contaminated clothing and wash it before reuse.
 In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, foam to extinguish
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container to comply with local/regional/national/international regulations

Other hazards: No additional information available

Unknown acute toxicity (GHS-US): Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not applicable

*Full text of H-phrases: see section 16

Mixture:

Name	Product identifier	%	Classification (GHS-US)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(CAS No) 64742-47-8	60.0-100.0	Flam. Liq. 4, H227 Asp. Tox. 1, H304
Xylene	(CAS No) 1330-20-7	1.0-5.0	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
Cumene	(CAS No) 98-82-8	0.5-1.5	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304
(+)-limonene	(CAS No) 5989-27-5	0.1-1.0	Flam. Liq. 2, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304

4. FIRST AID MEASURES

Description of first aid measures:

First-aid measures general:

If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation:

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact:

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact:

Rinse immediately with plenty of water.

First-aid measures after ingestion:

Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries:

May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Suspected of causing cancer.

Symptoms/injuries after inhalation:

Coughing. May cause an allergic skin reaction.

Symptoms/injuries after skin contact:

May cause an allergic skin reaction.

Symptoms/injuries after eye contact:

Direct contact with the eyes is likely irritating.

Symptoms/injuries after ingestion:

May be harmful if swallowed and enters airways.

Indication of any immediate medical attention and special treatment needed:

No additional information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Carbon dioxide. Dry chemical powder. Foam

Special hazards arising from the substance or mixture:

Fire hazard: Flammable liquid and vapor.
Reactivity: Upon combustion: CO and CO₂ are formed.

Advice for firefighters:

Firefighting instructions: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

General measures: No flames, No sparks. Eliminate all sources of ignition.

For non-emergency personnel:

Protective equipment: Gloves. Protective goggles. Protective clothing.
Emergency procedures: Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

For emergency responders:

Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Stop leak if safe to do so. Stop release. Ventilate area.

Environmental precautions:

Avoid release to the environment. Prevent entry to sewers and public waters.

Methods and material for containment and clean up:

For containment: Contain released substance, pump into suitable containers.
Methods for cleaning up: This material and its container must be disposed of in a safe way, and as per local legislation.

Reference to other sections:

No additional information available.

7. HANDLING AND STORAGE

Precautions for safe handling:

Precautions for safe handling: Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink, or smoke when using this product. Do not get in eyes, on skin, or on clothing.

Hygiene measures: Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities:

Technical measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.
Storage conditions: Keep container tightly closed.
Incompatible products: Oxidizing agent.
Incompatible materials: Sources of ignition.
Storage area: Meet the legal requirements. Store in a cool area. Store in a well-ventilated place.
Special rules on packaging: Keep only in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Xylene (1330-20-7)		
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
Cumene (98-82-8)		
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	Remark (ACGIH)	Eye, skin & URT irr; CNS impair

Exposure controls:**Appropriate engineering controls:**

Ensure good ventilation of the work station.

Personal protective equipment:

Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective clothing. Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state	Liquid
Appearance	Clear, colorless liquid.
Odor	Lemon-like
Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	103 F Closed Cup
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20 C	No data available
Specific gravity/density	0.79 g/ml
Solubility	Insoluble in water.
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	< 20 cSt
Viscosity, dynamic	No data available
VOC content	> 90%

10. STABILITY AND REACTIVITY

Reactivity:Upon combustion: CO and CO₂ are formed.**Chemical stability:**

No additional information available.

Possibility of hazardous reactions:

Refer to Section on Reactivity.

Conditions to avoid:

No additional information available.

Incompatible materials:

No additional information available.

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:**Acute toxicity:** Not classified.

Xylene (1330-20-7)	
LD50 inhalation rat (ppm)	4550 ppmV/4h
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (gases)	4550.000 ppmV/4h

ATE CLP (dust, mist)	1.500 mg/l/4h
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Literature)
(+)-limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity - Acute Toxic Class Method: Literature study; >2000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
ATE CLP (oral)	4400.000 mg/kg body weight

Skin corrosion/irritation: Not classified.
Serious eye damage/irritation: Not classified.
Respiratory or skin sensitization: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified.
Carcinogenicity: Suspected of causing cancer.

Xylene (1330-20-7)	
IARC group	3 - Not classifiable
Cumene (98-82-8)	
IARC group	2B - Possibly Carcinogenic to Humans
(+)-limonene (5989-27-5)	
IARC group	3 - Not classifiable

Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation: Coughing. May cause an allergic skin reaction.
Symptoms/injuries after skin contact: May cause an allergic skin reaction.
Symptoms/injuries after eye contact: Direct contact with the eyes is likely irritating.
Symptoms/injuries after ingestion: May be harmful if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Toxicity:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
LC50 fish 1	> 100 mg/l (Pisces)
EC50 Daphnia 1	> 100 mg/l (Invertebrata)
Threshold limit algae 1	> 100 mg/l (Algae)
(+)-limonene (5989-27-5)	
LC50 fish 1	720 ug/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	702 ug/l (96 h; Pimephales promelas)
Threshold limit algae 1	150 mg/l (72 h; Desmodesmus subspicatus; GLP)
Threshold limit algae 2	2.62 mg/l (72 h; Desmodesmus subspicatus)

Persistence and degradability:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Persistence and degradability	Readily biodegradable in water. Adsorbs into the soil.
(+)-limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
ThOD	3.29 g O/g substance

Bioaccumulative potential:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Log Pow	6-8.2
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5)
(+)-limonene (5989-27-5)	
BCF fish 1	864.8-1022 (Pisces; Fresh weight)
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-

Bioaccumulative potential	octanol/water), HPLC method; 37 C) Potential for bioaccumulation ($4 \geq \text{Log Kow} \geq 5$).
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13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

No additional information available.

14. TRANSPORT INFORMATION

Department of Transportation (DOT)

Additional information:

Other information:

When transported by ground in non-bulk containers, this product utilizes the exception found under 49 CFR 173.150.

ADR:

No additional information available.

Transport by sea:

No additional information available.

Air Transport:

No additional information available.

15. REGULATORY INFORMATION

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) or 1986 and 40 CFR Part 372.

Xylene	CAS No 1330-20-7	1.0-5.0
Cumene	CAS No 98-82-8	0.5-1.5

Xylene (1330-20-7)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
Cumene (98-82-8)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the State of California to cause cancer and /or reproductive toxicity.

16. OTHER INFORMATION

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H227	Combustible liquid
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
H332	Harmful if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water

Disclaimer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendee or users assume all risks associated with the use of this material.