

MATERIAL SAFETY DATA SHEET

Revised date: 18/07/2017

1. PRODUCT NAME AND IDENTIFICATION

Product Name: JCP 307 ZINC COATING
Chemical Name & Synonyms: N/A
CAS Number: N/A, Mixture
Company Name: JCP GROUP (THAILAND) CO., LTD.
Tel & Fax: +(66)34-412-824 **Emergency:** +(66)85-105-6034

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS#	% by Wt.	OSHA TWA (ppm)	ACGIH-TWA (ppm)
Toluene	108-88-3	20-30	N/A	N/A
Acetone	67-64-1	20-30	N/A	N/A
Propane	74-98-6	10-20	N/A	N/A
Butane	106-97-8	5-10	N/A	N/A
Xylenes (o-, m-, p- isomers)	1330-20-7	5-10	N/A	N/A
Mineral spirits	64742-47-8	1-5	N/A	N/A
Ethyl benzene	100-41-4	1-5	N/A	N/A

3. HAZARDS IDENTIFICATION

Emergency overview: Can cause irritation or damage to eyes and skin. Harmful if swallowed.

Routes of Exposure: Inhalation: [✓] Ingestion: [✓] Absorption: [✓]

Eyes: Causes eye irritation.

Skin: May cause skin irritation.

Inhalation: Prolonged skin contact may defat the skin and produce dermatitis. Harmful if inhaled and may cause delayed lung injury.

Ingestion: Ingestion may cause irritation to mucous membranes. Causes headache, drowsiness or other effects to the central nervous system. Aspiration hazard if swallowed - can enter lungs and cause damage.

Carcinogenicity: Contains no listed carcinogens.

4. FIRST AID MEASURES

General Advice: Avoid contact with skin, eyes and clothing. Show this safety data sheet to the doctor in attendance.

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

Skin Contact: Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion: Drink 1 or 2 glasses of water. Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Notes to Physician: Aspiration hazard if swallowed - can enter lungs and cause damage.

5. FIRE FIGHTING MEASURES

Flash Point -2°F/-19°C **Method** N/A

Autoignition Temperature N/A

Flammability Limits in Air Mixture Upper 10.9 Lower 1.7

Suitable Extinguishing Media Water spray. Foam. Dry chemical. Carbon dioxide (CO₂).

Specific Hazards Arising from the Chemical Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 1 Flammability 4 Instability 3

HMIS Health 1 Flammability 4 Instability 3

6. ACCIDENTAL RELEASE (SPILL MEASURES)

Personal Precautions Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)

Methods for Cleaning Up Pick up and transfer to properly labelled containers. Never return spills in original containers for re-use.

Neutralizing Agent Not applicable

7. HANDLING AND STORAGE

Handling Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas.

Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep in properly labelled containers.

Storage Temperature **Minimum** 35°F / 2°C **Maximum** 120°F / 49°C

Storage Conditions **Indoor X** **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	ACGIH TLV	OSHA PEL	NIOSH
Toluene	: 20 ppm TWA	: 200 ppm TWA : 300 ppm Ceiling	: 500 ppm IDLH : 100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL
Acetone	: 750 ppm STEL : 500 ppm TWA	: 1000 ppm TWA; 2400 mg/m ³ TW	: 2500 ppm IDLH (10% LEL) : 250 ppm TWA; 590 mg/m ³ TWA
Propane	: 1000 ppm TWA	: 1000 ppm TWA; 1800 mg/m ³ TWA	: 2100 ppm IDLH (10% LEL) : 1000 ppm TWA; 1800 mg/m ³ TWA
Butane	: 1000 ppm TWA	No data available	: 800 ppm TWA; 1900 mg/m ³ TW
Xylenes (o-, m-, p-isomers)	: 150 ppm STEL : 100 ppm TWA	: 100 ppm TWA; 435 mg/m ³ TWA	No data available
Mineral spirits	No data available	No data available	No data available

Ethyl benzene	: 125 ppm STEL : 100 ppm TWA	: 100 ppm TWA; 435 mg/m ³ TWA	: 800 ppm IDLH (10% LEL) : 100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 mg/m ³ STEL
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Engineering Measures Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.

Skin Protection For prolonged or repeated contact use protective gloves.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES (Typical)

Physical State	Aerosol	Viscosity	N/A
Color	Zinc	Odor	Aromatic
Appearance	Opaque	pH	N/A
Specific Gravity	0.85	Bulk Density	N/A
Evaporation Rate	N/A	Percent Volatile (Volume)	N/A
VOC Content (%)	N/A	Vapor Pressure	2068.60 mmHg
Vapor Density	609.0	Solubility	Negligible
Boiling Point/Range	-166°F/-110°C		

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Temperatures above 120 °F.
Incompatible Products	None known.
Hazardous Decomposition Products	None under normal use
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Toluene

LD50 Oral = 636 mg/kg (Rat)
 LD50 Dermal = 12124 mg/kg (Rat) 8390 mg/kg (Rabbit)
 LC50 Inhalation = 26700 ppm (Rat) 1 h 12.5 mg/L (Rat) 4 h

Acetone

LD50 Oral = 5800 mg/kg (Rat)

Propane

LC50 Inhalation = 658 mg/L (Rat) 4 h

Butane

LC50 Inhalation = 658 mg/L (Rat) 4 h

Xylenes (o-, m-, p- isomers)

LD50 Oral = 4300 mg/kg (Rat)

LD50 Dermal = 1700 mg/kg (Rabbit)

LC50 Inhalation = 5000 ppm (Rat) 4 h 47635 mg/L (Rat) 4 h

Mineral spirits

LD50 Oral = 5000 mg/kg (Rat)

LD50 Dermal = 2000 mg/kg (Rabbit)

LC50 Inhalation = 5.2 mg/L (Rat) 4 h

Ethyl benzene

LD50 Oral = 3500 mg/kg (Rat)

LD50 Dermal = 15354 mg/kg (Rabbit)

LC50 Inhalation = 17.2 mg/L (Rat) 4 h

Carcinogenicity ACGIH A3 IARC Group 2B OSHA X

12. ECOLOGICAL INFORMATION

N/A

13. DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of as hazardous waste in compliance with local and national regulations
Container Disposal	Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Consumer Commodity
Hazard Class	ORM-D
Description	Consumer Commodity ORM-D

TDG

Proper shipping name	Aerosols
Hazard Class	2.1
UN-No	UN1950
Description	UN1950,AEROSOLS,2.1, LTD QTY

ICAO

UN-No	UN1950
Proper Shipping Name	Aerosols, flammable
Hazard Class	2.1
Shipping Description	UN1950, Aerosols,2.1, LTD QTY

IATA

UN-No	UN1950
Proper Shipping Name	Aerosols, flammable
Hazard Class	2.1
ERG Code	10L
Shipping Description	UN1950,Aerosols, flammable ,2.1, LTD QTY

IMDG/IMO

Proper Shipping Name	Aerosols
Hazard Class	2.1
UN-No	UN1950 EmS No. F-D, S-U
Shipping Description	UN1950, Aerosols,2.1,LTD QTY

15. REGULATORY INFORMATION

Inventories

TSCA Complies

DSL Complies

U.S. Federal Regulations

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the Labelling according to EC Directives

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

A Compressed gases, D2A Very toxic materials



16. OTHER INFORMATION

The above information is based on data available to us and is believed to be correct. However, no warranty, merchantability, fitness for any use or any other warranty is expressed or to be implied regarding the accuracy of these data, the result to be obtained from the use thereof, the hazards connected with the use of the material, or that any such use will not infringe any patent. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility resulting from its use. This information is furnished upon the condition that the person receiving it shall make his own determination for the suitability of the material for his particular purposes.
