

Material Safety Data Sheet

JBP REFLECTIVE TRAFFIC PAINT

1. Identification of the substance and of the supplier

1.1 Product identifiers

Product name	:	Reflective Traffic Paint
Product code	:	29-XXX, all colours

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

Identified uses	:	Paint for road marking

1.3 Details of the supplier of the safety data sheet

Company	:	JBP International Paint Co., Ltd. 108 Bangvak Rd. Bangvak Pasicharoen Bangkok 10160
Telephone	:	(662) 410-4268-72, (662) 865-7800-5
Fax	:	(662) 865-7808-9, (662) 865-8430
Emergency telephone	:	(662) 410-4268-72, (662) 865-7800-5

2. Hazards Identification

2.1 Classification of the substance or mixture according to GHS

Flammable liquids	Category 3
Skin corrosion / irritation	Category 3
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive toxicity	Category 1B
Aspiration hazard	Category 1
Acute aquatic toxicity	Category 3

2.2 Label elements



Signal word	:	Danger



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Hazard statements

H226 – Flammable liquid and vapour
H316 – Causes mild skin irritation
H340 – May cause genetic defects
H350 – May cause cancer
H360 – May damage fertility or the unborn child
H304 – May be fatal if swallowed and enters airways
H402 – Harmful to aquatic life

Precautionary statements

Prevention

Read label before use.
Obtain special instruction before use.
Keep away from heat / sparks / open flames / hot surfaces. No smoking.
Wear protective gloves / protective clothing / eye protection / face protection.
Do not breathe dust / fume / gas / mist / vapours / spray.
Use only outdoors or in a well-ventilated area.
Wash face, hands and any exposed skin thoroughly after handling.
Avoid release to the environment.

Response

If skin irritation occurs, get medical advice / attention.
If in eyes, rinse with water for several minutes. If eye irritation persists, get medical advice / attention.
If swallowed, immediately call a poison center or doctor / physician. Do not induce vomiting.
If exposed or concerned, get medical advice / attention.

Storage

Stir thoroughly before use.
Store in a well-ventilated place and cool.
Store locked up.

Disposal

Dispose of contents / container in accordance with local / regional / national / international regulations (to be specified).

Other hazards : No data available



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3. Composition / Information on Ingredients

Order	Components	CAS No.	Content (%)
1	Alkyd resin	–	15-20
2	Toluene	108-88-3	16-20
3	Pigments and extenders	–	30-35
4	Additives	–	4-5
5	Reflective glass beads	–	19-20

Impurities and stabilising additives : None

4. First Aid Measures

4.1 Description of first aid measures

Inhalation : Remove to fresh air. If breathing is difficult, give respiratory assistance. Get medical attention immediately.

Skin contact : Remove contaminated clothing immediately. Wash off with plenty of water.

Eye contact : Rinse with plenty of water. Remove contact lenses. Hold eyelids open and rinse for at least 15 minutes. Get medical attention immediately.

Ingestion : Rinse mouth. Do not induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed : Described in section 2 and / or section 11.

4.3 Indication of any immediate medical attention and special treatment : As required, treat symptomatically.

5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate to the surrounding fire: water spray (fog), foam, dry chemical, carbon dioxide (CO_2), alcohol-resistant foam.

Unsuitable extinguishing media : Do not use a direct water jet.

5.2 Special hazards arising from the substance or mixture : No data available

5.3 Special protective equipment and precautions for fire-fighters : Wear fire-fighting suit and self-contained breathing apparatus (SCBA).



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6. Accidental Release Measures	6.1 Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel from the area. Avoid direct contact with the chemical. Do not breathe vapours. Wear a gas/vapour respirator, boots and rubber gloves.
	6.2 Environmental precautions	:	Prevent product from entering drains or water sources.
	6.3 Methods and materials for containment and cleaning up	:	Wear chemical protective clothing with a gas/vapour respirator, boots and chemical protection gloves. Soak up residue with sand or inert absorbent material. Keep in suitable, closed containers for disposal and move to a safe place. For disposal see section 13.
7. Handling and Storage	7.1 Precautions for safe handling	:	Avoid contact with skin and eyes. Use only with adequate ventilation. Wear safety goggles and gloves to prevent eye and skin contact. Keep away from high temperature, flames and sparks. Ground / bond container and receiving equipment. Take precautionary measures against static discharge. Use explosion-proof electrical equipment.
	7.2 Conditions for safe storage, including any incompatibilities	:	Keep container tightly closed. Keep away from heat, flames and incompatible materials. Store in a well-ventilated, dry and cool place.
8. Exposure Controls / Personal Protection	8.1 Control parameters	:	Toluene ACGIH TLV : TWA-50 ppm OSHA PEL : TWA-200 ppm, C-300 ppm NIOSH REL : TWA-100 ppm (375 mg/m^3), STEL-150 ppm (560 mg/m^3)
	8.2 Appropriate engineering controls	:	Ensure adequate ventilation. Provide local exhaust ventilation.
	8.3 Personal protective equipment	:	
	Respiratory protection	:	Wear a gas/vapour respirator
	Eye / face protection	:	Safety goggles or face shield
	Skin protection	:	Chemical protection gloves
	Body protection	:	Chemical protective clothing



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	8.4 Work / hygienic practices	:	Change contaminated clothing. Wash thoroughly after handling. Do not eat, drink or smoke in the work area.
9. Physical and Chemical Properties	9.1 Appearance and colour	:	Viscous liquid; white, yellow, red, black
	9.2 Odour	:	Aromatic odour
	9.3 Odour threshold	:	No data available
	9.4 pH	:	No data available
	9.5 Melting point / freezing point	:	No data available
	9.6 Initial boiling point and boiling range	:	No data available
	9.7 Flash point	:	No data available
	9.8 Evaporation rate	:	No data available
	9.9 Flammability (solid, gas)	:	No data available
	9.10 Upper / lower flammability or explosive limits	:	No data available Lower: None Upper: None
	9.11 Vapour pressure	:	No data available
	9.12 Vapour density (Air = 1)	:	No data available
	9.13 Relative density (Water = 1)	:	No data available
	9.14 Water solubility	:	No data available
	9.15 Partition coefficient : n-octanol / water (log Kow)	:	No data available
	9.16 Auto-ignition temperature	:	No data available
	9.17 Decomposition temperature	:	No data available
	9.18 Viscosity	:	No data available
10. Stability and Reactivity	10.1 Reactivity	:	No data available
	10.2 Chemical stability	:	Stable under recommended storage conditions
	10.3 Possibility of hazardous reaction	:	Will not occur
	10.4 Conditions to avoid	:	Heat, flames and sparks
	10.5 Incompatible materials	:	No data available
	10.6 Hazardous decomposition products	:	No decomposition if used and stored according to specifications.



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11. Toxicological Information

11.1 Information on the likely routes of exposure

Inhalation	:	No data available
Skin contact	:	Causes mild skin irritation
Eye contact	:	No data available
Ingestion	:	No data available
11.2 Symptoms related to the physical, chemical and toxicological characteristics	:	Coughing, sore throat, headache, dizziness, drowsiness, unconsciousness

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure

Immediate effects	:	Affects the central nervous system, causing drowsiness, near loss of consciousness and unconsciousness. Irritating to the respiratory tract, skin and eyes.
Chronic effects	:	Causes skin dryness; may cause dermatitis. Affects the peripheral nervous system, spleen and blood vessels. Damages the liver and kidneys.

11.4 Numerical measures of toxicity : Acute toxicity

Component	LD50 (oral, rat)	LD50 (dermal, rabbit)	LC50 (inhalation, rat) 4h
Toluene 108-88-3	>3500 mg/kg	>5000 mg/kg	



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Classification of Health Hazards

Acute oral toxicity estimate	:	No data available
Acute dermal toxicity estimate	:	No data available
Acute inhalation toxicity estimate	:	No data available
Skin corrosion / irritation	:	Causes mild skin irritation
Serious eye damage / eye irritation	:	No data available
Respiratory or skin sensitization	:	No data available
Germ cell mutagenicity	:	May cause genetic defects
Carcinogenicity	:	May cause cancer
Reproductive toxicity	:	May damage fertility or the unborn child
Specific target organ toxicity – single exposure	:	No data available
Specific target organ toxicity – repeated exposure	:	No data available
Aspiration hazard	:	May be fatal if swallowed and enters airways

12. Ecological Information

12.1 Ecotoxicity	:	Harmful to aquatic life
Acute aquatic toxicity	:	Harmful to aquatic life
12.2 Persistence and degradability	:	No data available
12.3 Bioaccumulative potential	:	No data available
12.4 Mobility in soil	:	No data available
12.5 Other adverse effects	:	No data available

13. Disposal Considerations

13.1 Waste treatment methods	:	Disposal should be in accordance with local regulations; contact a licensed waste disposal company.
13.2 Contaminated packaging	:	Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself.



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14. Transport Information

14.1 UN number	:	1263
14.2 UN proper shipping name	:	None
14.3 Transport hazard class(es)	:	None
14.4 Packaging group	:	None
14.5 Environmental hazards	:	None
14.6 Transport in bulk	:	None
14.7 Special precautions for user	:	No data available

15. Regulatory Information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

Notification of the Ministry of Industry: List of Hazardous Substances B.E. 2556 (List 5.1)	:	No control
Notification of the Department of Labour Protection and Welfare: List of Hazardous Chemicals B.E. 2556	:	No control



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16. Other Information

Authoring date : 10 September 2022

Reference

1. European Chemical Substances Information System (ECB) : ESIS, Annex VI
http://ecb.jrc.ec.europa.eu/esis/
http://ecb.jrc.ec.europa.eu/classification-labelling/clp/ghs/search.php
2. The National Institute for Occupational Safety and Health (NIOSH) : Pocket Guide to Chemical Hazards
http://www.cdc.gov/niosh/npg/npgdcas.html
3. International Programme on Chemical Safety (IPCS) : Chemical Safety Information from Intergovernmental Organizations (INCHEM)
http://www.inchem.org/
4. United States National Library of Medicine : ChemIDplus Lite (ID PLUS)
http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM
5. Occupational Safety & Health Administration (OSHA)
http://www.osha.gov/dts/chemicalsampling/toc/chmcas.html
6. New Jersey Department of Health (DOH)
http://wed.doh.state.nj.us/rtkhsfs/qrsearch.aspx
7. Environmental Risk Management Authority : HSNO Chemical Classification Information Database (CCID)
http://www.ermanz.govt.nz/Chemicals/ChemicalSearch.aspx
8. International Uniform Chemical Information Database (IUCLID)
http://ecb.jrc.ec.europa.eu/esis/index.php?PGM=dat
9. United Nations Recommendations on the Transport of Dangerous Goods (UNRTDG)
http://www.unece.org/trans/danger/publi/unrec/rev14/English/05E_Index.pdf

Revision note : This information was updated from the safety data sheet of the raw material maker.