

Material Safety Data Sheet



Chengdu Xingraphics Co., Ltd

DV-F2R Thermal Plate Developer

1. Identification of the substance/preparation and of the company/undertaking

Product name :DV-F2R Thermal Plate Developer **Nr.SDS** :30022
Date of issue : 2006-06-15.
Catalogue number : 5270475; 5270467; 5270459; **Version** : 1
0258491; 0161646; 0130716;
0051227 **Supplier** : Chengdu Xingraphics CO.,LTD.
Juguang Rd, Xingdu Instrustrial developing zone,
Chengdu, Sichuan Province
Area of Application :Industrial applications Graphic Arts product.
China

Emergency telephone number: Emergency telephone number: +86-28-83963499.

Only for physicians and medical specialists in case of an accidental poisoning.

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2.Composition/information on ingredients

Chemical name	CAS Number	%	EC Number	Symbol	R-Phrases
Water	7732-18-5	79-95	231-791-2	-	-
Sodium metasilicate	6834-92-0	5-15	229-912-9	Xi	R11
Potassium hydroxide	1310-58-3	<1	215-181-3	-	-
Surfactant	1310-73-2	<3			
Solubilizer	107-21-1	<3			

3.Hazards Identification

Emergency Overview

Pale brown liquid. Mild odor. Corrosive liquid (pH – 13.0). Irritating to eyes, skin and respiratory tract. Harmful if swallowed.
Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Do not ingest. Wash thoroughly after handling.

Potential Health Effects

Route of entry: Eye contact X
Skin X
Ingestion X

Eye Contact: Causes severe eye irritation and may cause permanent eye damage.

Skin Contact: May cause irritation to the skin, discolouration and burns.

Skin absorption:

Inhalation: May cause irritation to the respiratory tract.

Ingestion: Will cause internal irritation to the lips, mouth and gastrointestinal tract.

Carcinogenicity: NTP Not Available
IARC Not Available
OSHA Not Available

4. First Aid

Eye contact:	Check for and remove any contact lenses. Flush eyes immediately with running water for at least 15 minutes keeping eyelids open. Seek medical attention.
Skin contact:	Wash affected area immediately with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, seek medical attention.
Inhalation:	Remove to fresh air. Seek medical attention if necessary.
Ingestion:	Do not induce vomiting. Have conscious person drink several glasses of water. Seek immediate medical attention.

5. Fire Fighting Measures

Flash point:	Not applicable
Flammable (explosive) limits:	Non-flammable
Extinguishing media:	This product is not a combustible
Fire & explosion hazards:	None
Special fire fighting instructions:	None

6. Accidental Release Measures

Steps to be taken in case material is released or spilled:

Small spills:	Wear adequate personal protection. Contain and cover with suitable absorbent materials for disposal.
Large spills:	For larger spills requiring emergency response, neoprene boots and respiratory protection may also be required. Follow the appropriate NIOSH and OSHA regulations. Dike larger spills to minimize the spill area. Hold in DOT approved container.

Waste disposal method: Dispose of according to local and national regulations.

7. Handling and Storage

Handling:	Do not take internally. Avoid eye and skin contact. Wash thoroughly after handling. Avoid conditions causing mists.
Storage:	Keep in original container. Keep container tightly closed. Store away from acids in a well-ventilated, cool, dry area.

8. Exposure Controls and Personal Protection

Engineering controls:	Use good general ventilation (>10 air changes/hour) and engineering controls (local exhaust, filter and process enclosures if necessary) to keep airborne levels low. Ensure that eyewash station and safety shower is proximal to the work-station location.
Ventilation:	Local exhaust: Preferable Mechanical: Adequate
Personal protection	
Eyes	Safety glasses, goggles or face shield.
Hands	Chemical resistant (neoprene) gloves
Body	Lab coat or protective synthetic apron.
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Exposure guidelines:	OSHA final limits, ACGIH TLVs: none established

9. Physical and Chemical Properties

Appearance and odor:	Clear liquid. Mild odor.
Melting point:	-3 – 0 C
Boiling point:	99 – 104 C
Specific gravity:	1.08 at 20 C (Water = 1)
Vapor pressure:	17.5 mm/Hg
Solubility in water:	Soluble in water
pH	13 (Basic)
Reactivity in water	None

10. Stability and Reactivity

Chemical stability:	This product is stable
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Conditions to avoid:	Not available
Incompatibility (materials to avoid):	Incompatible with strong acids
Hazardous decomposition products:	None
Hazardous polymerization:	Will not occur

11.Toxicology Information

Toxicity to Animals:	Sodium Metasilicate: ORAL (LD) 50: Acute: 1153 mg/kg [Rat]. Potassium hydroxide: ORAL(LD50): Acute:273mg/kg[Rat].
Chronic Effects on Humans:	Not available.
Other Toxic Effects on Humans:	Hazardous in case of skin contact (corrosive, irritant), of eye contact (corrosive) and of ingestion. hazardous in case of inhalation.

12.Ecological Information

No data available.

13.Disposal Considerations

Waste must be disposed of in accordance with local and national environmental control regulations. Consult local and national authorities.

14.Transport Information

DOT (Department of Transportation):	Class 8: corrosive material. Corrosive liquid, basic, inorganic, n.o.s., (Sodium Metasilicate) Corrosive UN Number 3266 Packing Group: III Passenger Aircraft: Packing instruction 818 Max. 5L Freight Aircraft: Packing instruction 820 Max. 60L
Marine pollutant:	Not designated as a marine pollutant by D.O.T.
TDG Classification:	Class 8: corrosive material.
ADR/RID Classification:	CLASS 8: Corrosive liquid.
IMO/IMDG Classification:	CLASS 8: Corrosive liquid. Corrosive liquid, basic, inorganic, n.o.s., (Sodium Metasilicate) UN Number 3266
ICAO/IATA:	Class 8: corrosive material. Corrosive liquid, basic, inorganic, n.o.s., (Sodium Metasilicate) UN Number 3266

15.Other Information

HISTORY

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Notice to Reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.