

# Safe Data Sheet

Approval date(by the manufacturer):  
12.08.2011  
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## 1. Identification of the substance/preparation and of the company/undertaking

Product name: Xingraphics Arto R Replenisher  
Product code: 30920  
intended use: Ready to use replenisher with Arto-D for positive plate

### Supplier:

Chengdu Xingraphics Co., Ltd.  
Xindu Industrial developing Zone, Chengdu, Sichuan  
P.R.China

For urgent inquiries refer to Tel:+86-28-83963804

Email address of the competent person responsible for the Safety Data Sheet: info@xingraphics.com

## 2. Hazards Identification

### Emergency Overview

Pale brown liquid. Mild odor. Corrosive liquid(pH-13.0). Burns 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, discoloration and burns

**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

## 2. Composition/information on ingredients

Chemical name	CAS Number	%	EC Number	Symbol	R-Phrases	Pre-registration No.
Water	7732-18-5	89-94	231-791-2	-		
Disodium metasilicate	6834-92-0	5-10	229-912-9	C	R34	05-2114334813-51-0000
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfonio-, N-coco acyl derivs., hydroxides, inner salts	68139-30-0	0.5-1.5	268-761-3	Xi	R36/38	17-2119860930-36-0000
Potassium hydroxide	1310-58-3	<0.5	215-181-3		R 22-35	

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## 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.

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## 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

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## 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.

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## 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.

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## 8.Exposure Controls and Personal Protection

<b>Engineering controls:</b>	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.
<b>Ventilation:</b> Local exhaust:	Preferable
Mechanical:	Adequate
<b>Personal protection</b>	
<b>Eyes</b>	Safety glasses, goggles or face shield
<b>Hands</b>	Chemical resistant ( neoprene) gloves
<b>Body</b>	Lab coat or protective synthetic apron
<b>Respiratory</b>	Wear appropriate respirator when ventilation is inadequate
<b>Exposure guidelines:</b>	OSHA final limits, ACGIH TLVs: none established

## 9.Physical and Chemical Properties

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

## 10.Stability and Reactivity

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

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## 11.Toxicology Information

**Toxicity to Animals:** Sodium Metasilicate

**ORAL (LD) 50:** Acute: 1153mg/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. Slightly hazardous in case of inhalation.

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## 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

Biodegradability: Biodegradable is expected.

Ecotoxicity: Toxicity to fish / daphnia / algae: in the range of solubility in water is not toxic under test conditions.

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## 13. Disposal Considerations

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

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## 14. Transport information

**DOT (Department of Transportation)** **Class8** : corrosive material  
Corrosive liquid,basic, inorganic,n.o.s.,(Sodium Metasilicate)  
Corrosive UN Number 3266  
Packing Group:II  
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

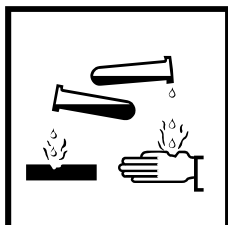
**IMO/IMDG Classification:** **CLASS 8:** Corrosive liquid  
Corrosive liquid, basic,inorganic,n.o.s., (Sodium Metasilicate)  
UN Number 3266

**ICAN/IATA:** **Class 8** : corrosive material. Corrosive liquid, basic ,inorganic, n.o.s.  
(Sodium Metasilicate)  
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## 15. Regulatory information



**CORROSIVE**

R34 Causes burns

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37/39 Wear suitable protective clothing, gloves and eye/ face protection

S45 In case of accident or if you feel unwell, seek medical advice immediately

## 16. Other Information

Text of R-phrases referred to under headings 2:

### R34: Cause burns

This Safety Data Sheet is compiled in accordance with European Directives and corresponding national legislation. The information disclosed in this Safety Data Sheet is believed to be correct to the best of our knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other material or in any process, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the responsibility of the user to comply with local legislation relating to safety, health, environment and waste management.

### GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
4. The Merck Index. - 10th Edition;
5. Handling Chemical Safety;
6. Niosh - Registry of Toxic Effects of Chemical Substances;
7. INRS - Fiche Toxicologique (toxicological sheet);
8. Patty - Industrial Hygiene and Toxicology;
9. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

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## HISTORY

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<b>Date of issue:</b>	2011-08-30
<b>Version:</b>	1.1
<b>Prepared by:</b>	Chengdu Xingraphics Co., Ltd

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## Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.