

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: PRIMA DP200

Product No.: 000001014454

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

Identified uses: Offset plate developer solution

Uses advised against: Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Agfa Graphics NV
Septestraat 27
2640 Mortsel
Belgium

Telephone: +32 3 4442111

Fax: +32 3 4447094

E-mail: electronic.sds@agfa.com

National Supplier

Agfa-Gevaert Ltd.
Vantage West
Great West Road
Brentford, Middlesex TW8 9AX
United Kingdom

Telephone: +44 (0)20 8 231 4616

Fax: +44 (0)20 8 231 4951

E-mail: electronic.sds@agfa.com

1.4 Emergency telephone number:

Emergency telephone number (Belgium) : +32 3 4443333 (24h/24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Skin corrosion

Category 2

H315: Causes skin irritation.

Serious eye damage

Category 1

H318: Causes serious eye damage.

2.2 Label Elements

Contains: Disodium metasilicate



Signal Words: Danger

Hazard Statement(s): H315: Causes skin irritation.
H318: Causes serious eye damage.

Precautionary Statements

Prevention: P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P310: Immediately call a POISON CENTER/doctor/...
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Disodium metasilicate	5 - <10%	6834-92-0	229-912-9	01-2119449811-37-XXXX	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
Disodium metasilicate	Skin Corr.: 1B: H314 STOT SE: 3: H335	No data available.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:	Move to fresh air.
Eye contact:	Rinse immediately with plenty of water.
Skin Contact:	Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Ingestion:	Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: See section 11 of the SDS for additional information on health hazards.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards:	No data available.
Treatment:	Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Put on protective equipment before entering danger area.

6.2 Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

6.3 Methods and material for containment and cleaning up: Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

6.4 Reference to other sections: For personal protection see section 8. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities: Store away from incompatible materials.

7.3 Specific end use(s): Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

None.

DNEL-Values

Critical component	type	Route of Exposure		Remarks
Disodium metasilicate	General population	Oral	0.74 mg/kg	Repeated dose toxicity
	General population	Dermal	0.74 mg/kg	Repeated dose toxicity
	General population	Inhalation	1.55 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	6.22 mg/m ³	Repeated dose toxicity
	Workers	Dermal	1.49 mg/kg	Repeated dose toxicity
sodium hydroxide	Workers	Inhalation	1 mg/m ³	Irritating to respiratory system.
	General population	Inhalation	1 mg/m ³	Irritating to respiratory system.
strontium hydroxide	General population	Oral	0.7 mg/kg	Repeated dose toxicity

PNEC-Values

Critical component	Environmental compartment		Remarks
Disodium metasilicate	Aquatic (intermit. releases)	7.5 mg/l	
	Sewage treatment plant	1000 mg/l	
	Aquatic (marine water)	1 mg/l	
strontium hydroxide	Aquatic (freshwater)	7.5 mg/l	
	freshwater sediment	1781 mg/kg	
	Aquatic (freshwater)	2065 µg/l	

	Sewage treatment plant	4.2 mg/l	
	soil	323.6 mg/kg	

8.2 Exposure controls

Appropriate Engineering Controls: Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection: Wear goggles/face shield. Safety goggles. EN 166.

Skin protection

Hand Protection: Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butylrubber (thickness ≥ 0.70 mm, breakthrough time > 480 min).(EN 374). The use of protective gloves should conform to the specifications of EC directive 89/686/EC and the resultant standard EN374.
 Additional advice: The data are based on own tests, literature data and information of glove manufacturers or derived from similar substances. Because several factors may influence these properties (eg temperature), one should take into account the fact that the life of a chemical gloves in practice may be considerably shorter than indicated by the permeation test. The high diversity of types of use are prescribed by the manufacturer.

Other: Safety clothes : long sleeved clothing EN13688

Respiratory Protection: In case of inadequate ventilation use suitable respirator (EN14387). Seek advice from local supervisor.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Colorless
Odor: Odorless
Odor Threshold: No data available.
pH: 13.5

Freezing point:	< 0 °C
Boiling Point:	> 100 °C
Flash Point:	> 93.3 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Relative density:	1.0860 (20 °C)
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Material is stable under normal conditions.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	No data available.
10.4 Conditions to avoid:	Avoid heat or contamination.
10.5 Incompatible Materials:	No data available.
10.6 Hazardous Decomposition Products:	By heating and fire, harmful vapors/gases may be formed.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation:	Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Skin Contact:	Moderately irritating to skin with prolonged exposure.
Eye contact:	Eye contact is possible and should be avoided.

11.1 Information on toxicological effects

Acute toxicity**Oral****Product:** No data available.**Specified substance(s)**

Disodium metasilicate LD 50 (Rat): 1,152 - 1,349 mg/kg

Dermal**Product:** Not classified for acute toxicity based on available data.**Specified substance(s)**

Disodium metasilicate LD 50 (Rat): > 5,000 mg/kg

Inhalation**Product:****Specified substance(s)**

Disodium metasilicate LC 50 (Rat, 4 h): > 2.06 mg/l

Repeated dose toxicity**Product:** No data available.**Specified substance(s)**

Disodium metasilicate NOAEL (Rat(Female, Male), Oral, 3 Months): > 227 mg/kg

Skin Corrosion/Irritation:**Product:** The health hazard evaluation is based on the toxicological properties of a similar material.**Specified substance(s)**

Disodium metasilicate in vivo (Rabbit): Corrosive

Serious Eye Damage/Eye Irritation:**Product:** The health hazard evaluation is based on the toxicological properties of a similar material.**Specified substance(s)**

Disodium metasilicate In vitro (Rabbit, 0.5 - 4 hrs): Corrosive

Respiratory or Skin**Sensitization:****Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

Germ Cell Mutagenicity**In vitro****Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

In vivo**Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

Carcinogenicity**Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

Reproductive toxicity**Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

Specific Target Organ Toxicity - Single Exposure**Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

Specific Target Organ Toxicity - Repeated Exposure**Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

Aspiration Hazard**Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

SECTION 12: Ecological information**12.1 Toxicity****Acute toxicity**

Fish**Product:** No data available.**Specified substance(s)**

Disodium metasilicate LC 50 (Danio rerio, 96 h): 210 mg/l (semi-static) experimental result

Aquatic Invertebrates**Product:** No data available.**Specified substance(s)**

Disodium metasilicate EC 50 (48 h): 1,700 mg/l (Static) interpreted

Chronic Toxicity**Fish****Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

Aquatic Invertebrates**Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

Toxicity to Aquatic Plants**Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

12.2 Persistence and Degradability**Biodegradation****Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

BOD/COD Ratio**Product** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

12.3 Bioaccumulative Potential**Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

- 12.4 Mobility in Soil:** No data available.
Known or predicted distribution to environmental compartments
 Disodium metasilicate No data available.
- 12.5 Results of PBT and vPvB assessment:** Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria
 Disodium metasilicate No data available.
- 12.6 Other Adverse Effects:** No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- General information:** Disposal considerations (including disposal of contaminated containers or packaging) Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Disposal methods:** Wash before disposal. Dispose to controlled facilities.

SECTION 14: Transport information

ADR

- 14.1 UN Number: Not regulated.
 14.2 UN Proper Shipping Name: Not regulated.
 14.3 Transport Hazard Class(es) Not regulated.
 14.4 Packing Group: Not regulated.
 14.5 Environmental Hazards: Not regulated.
 14.6 Special precautions for user: Not regulated.

RID

- 14.1 UN Number: Not regulated.
 14.2 UN Proper Shipping Name: Not regulated.
 14.3 Transport Hazard Class(es) Not regulated.
 14.4 Packing Group: Not regulated.
 14.5 Environmental Hazards: Not regulated.
 14.6 Special precautions for user: Not regulated.

IMDG

- 14.1 UN Number: Not regulated.
 14.2 UN Proper Shipping Name: Not regulated.
 14.3 Transport Hazard Class(es) Not regulated.
 14.4 Packing Group: Not regulated.
 14.5 Environmental Hazards: Not regulated.
 14.6 Special precautions for user: Not regulated.

IATA

- 14.1 UN Number: Not regulated.
 14.2 UN Proper Shipping Name: Not regulated.

- 14.3 Transport Hazard Class(es) Not regulated.
 14.4 Packing Group: Not regulated.
 14.5 Environmental Hazards: Not regulated.
 14.6 Special precautions for user: Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not applicable.

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Disodium metasilicate	6834-92-0	1.0 - 10%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Disodium metasilicate	6834-92-0	1.0 - 10%
sodium hydroxide	1310-73-2	0.1 - 1.0%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Not relevant.Not relevant.

Key literature references and sources for data: Safety Data Sheet from the supplier.
ECHA

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.

Training information: No data available.

Classification according to Regulation (EC) No 1272/2008 as amended.

Skin Corr. 2, H315

Eye Dam. 1, H318

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SDS No.:

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.