

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 Word: Danger

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

Precautionary Statements

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

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

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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).

Classification

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

The full text for all H-statements is displayed in section 16.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: CAUTION! First aid personnel must be aware of own risk during rescue!

4.1 Description of first aid measures

Inhalation:	Move to fresh air.
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.
Ingestion:	Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth.
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:	See section 11 of the SDS for additional information on health hazards.
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.
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:	See Section 8 of the SDS for Personal Protective Equipment. 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.

DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Disodium metasilicate	Workers	Dermal	Systemic, long-term; 1.49 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 6.22 mg/m ³	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 1.55 mg/m ³	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.74 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.74 mg/kg	Repeated dose toxicity

PNEC-Values

Critical component	Environmental compartment	PNEC-Values
Disodium metasilicate	Aquatic (intermit. releases)	7.5 mg/l
	Aquatic (freshwater)	7.5 mg/l
	Aquatic (marine water)	1 mg/l
	Sewage treatment plant	1000 mg/l

8.2 Exposure controls

Appropriate Engineering Controls: Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: Safety goggles. EN 166.

Skin protection

Hand Protection: Protective gloves should be used if there is a risk of direct contact or splash. (EN374) Chemical resistant gloves required for prolonged or repeated contact. Butyl rubber. Glove thickness: > 0.70 mm Break-through time: > 480 min Risk of splashes: Nitrile rubber. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

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:	No data available.
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.
Density:	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.
SADT:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information

VOC Content:	EC Directive 1999/13: 0 g/l ~0 % (calculated) EC Directive 2004/42: 58 g/l ~5.8 % (calculated)
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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:	Not known.
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
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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.
Skin Contact:	Moderately irritating to skin with prolonged exposure. Causes skin irritation.
Eye contact:	Eye contact is possible and should be avoided. Causes serious eye damage.
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:	Not classified for acute toxicity based on available data.
Specified substance(s) Disodium metasilicate	No data available.

Dermal

Product:	Not classified for acute toxicity based on available data.
Specified substance(s) Disodium metasilicate	LD 50 (Rat) : > 5,000 mg/kg Read-across based on grouping of substances (category approach), Key study

Inhalation

Product:	Not classified for acute toxicity based on available data.
Specified substance(s) Disodium metasilicate	No data available.

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): Experimental result, Key study

Serious Eye Damage/Eye Irritation:

Product:	The health hazard evaluation is based on the toxicological properties of a similar material.
Specified substance(s)	No data available.

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, Key study

Aquatic Invertebrates

Product:

No data available.

Specified substance(s)

Disodium metasilicate

EC 50 (Daphnia magna, 48 h): 1,700 mg/l (Static) Read-across based on grouping of substances (category approach), Key study

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:

Disodium metasilicate

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria
 No data available.

12.6 Other adverse effects: No data available.

12.7 Additional Information: 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.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

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.

References

PBT PBT: persistent, bioaccumulative and toxic substance.
 vPvB vPvB: very persistent and very bioaccumulative substance.

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

Wording of the H-statements in section 2 and 3

H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 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

Issue Date: 03.05.2017

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.