

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: THD100

Product No.: 000001014496

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

Identified uses: Offset plate developer solution

Uses advised against: Do not use for products which come into direct contact with food stuffs. Do not use for products which come into direct contact with the skin. Do not use for private purposes (household).

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 1B

H314: Causes severe skin burns and eye damage.

Serious eye damage

Category 1

H318: Causes serious eye damage.

2.2 Label Elements
Contains: Disodium metasilicate

Signal Words: Danger

Hazard Statement(s): H314: Causes severe skin burns and eye damage.

Precautionary Statement
Prevention: P260: Do not breathe dust/fume/gas/mist/vapors/spray.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301+P330+P331: If swallowed: Rinse mouth. Do NOT induce vomiting.

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		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	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.

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:

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:	13.3 (25 °C)
Freezing point:	< 0 °C
Boiling Point:	> 100 °C
Flash Point:	> 93.3 °C
Evaporation Rate:	Almost no evaporation (20°C).
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	23 hPa (20 °C)
Vapor density (air=1):	Not applicable
Relative density:	1.106 (20 °C) (Literature.)
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 No data available.

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Disodium metasilicate No data available.

Inhalation

Product:

Specified substance(s)

Disodium metasilicate No data available.

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

Disodium metasilicate No data available.

Skin Corrosion/Irritation:**Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

Serious Eye Damage/Eye Irritation:**Product:** No data available.**Specified substance(s)**

Disodium metasilicate No data available.

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 No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Disodium metasilicate No data available.

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:	UN 1719
14.2 UN Proper Shipping Name:	CAUSTIC ALKALI LIQUID, N.O.S.(Disodium metasilicate)
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
Hazard No. (ADR):	80
Tunnel restriction code:	(E)
14.4 Packing Group:	II
Limited quantity	1.00L
Excepted quantity	E2
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	–

RID

14.1 UN Number:	UN 1719
14.2 UN Proper Shipping Name	CAUSTIC ALKALI LIQUID, N.O.S.(Disodium metasilicate)
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
14.4 Packing Group:	II
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	–

IMDG

14.1 UN Number:	UN 1719
14.2 UN Proper Shipping Name:	CAUSTIC ALKALI LIQUID, N.O.S.(Disodium metasilicate)
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
EmS No.:	F-A, S-B
14.4 Packing Group:	II
Limited quantity	1.00L
Excepted quantity	E2
14.5 Environmental Hazards:	Not regulated.
14.6 Special precautions for user:	–

IATA

14.1 UN Number:	UN 1719
14.2 Proper Shipping Name:	Caustic alkali liquid, n.o.s.(Disodium metasilicate)
14.3 Transport Hazard Class(es):	
Class:	8
Label(s):	8
14.4 Packing Group:	II
Limited quantity	0.50L
Excepted quantity	E2
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	–

Other information

Passenger and cargo aircraft: Allowed.

Cargo aircraft only: Allowed.

14.7 Transport in bulk according to Annex II of MARPOL73/78 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%
Silicic acid, sodium salt	1344-09-8	0.1 - 1.0%

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 II): 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%

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. 1B, H314

Eye Dam. 1, H318

Issue Date: 06.04.2016

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.