

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** THD200

**Other means of identification**

**SDS number:** 000001014431

**Recommended use and restriction on use**

**Recommended use:** Offset plate developer solution

**Restrictions on use:** Reserved for industrial and professional use.

**Manufacturer/Importer/Supplier/Distributor Information**

**Manufacturer**

**Company Name:** Agfa NV  
**Address:** Septestraat 27  
2640 Mortsel  
Belgium

**Telephone:** +32 3 4442111  
**Fax:** +32 3 4447094  
**Contact Person:**  
**E-mail:** electronic.sds@agfa.com

**Distributor**

**Company Name:** Agfa Corporation  
**Address:** 611 River Drive  
Center 3  
Elmwood Park, NJ 07407  
U.S.A.

**Telephone:** 908-231-5261  
**Fax:**  
**Contact Person:** M. Patrick  
**E-mail:** nafta.productsafety@agfa.com

**Emergency telephone number:**

Transport Emergency

Non-transportation

Call CHEMTREC : +1 800 4249300  
International : +1 703 5273887

Health Emergency Phone : +1 303 6235716  
Agfa Information Phone : +1 201 4402500

**2. Hazard(s) identification****Hazard Classification****Health Hazards**

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1

**Label Elements****Hazard Symbol:**

<b>Signal Word:</b>	Danger
<b>Hazard Statement:</b>	Causes skin irritation. Causes serious eye damage.

**Precautionary Statements**

<b>Prevention:</b>	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response:</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water/... If skin irritation occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Take off contaminated clothing.
<b>Storage:</b>	Store locked up.
<b>Disposal:</b>	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.
<b>Other hazards which do not result in GHS classification:</b>	None.

**3. Composition/information on ingredients**

**Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Disodium metasilicate	sodium metasilicate.5aq,	6834-92-0	3 - <5%
Sodium octanoate		1984-06-1	1 - <5%
sodium hydroxide	SODIUM HYDROXIDE,	1310-73-2	0 - <0.1%
Ethenediol	GLYCOL,	107-21-1	0 - <0.1%

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

**4. First-aid measures**

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

**Ingestion:** Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions. Show this safety data sheet to the doctor in attendance.

**Inhalation:** Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and take along these instructions. Show this safety data sheet to the doctor in attendance.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse.

**Eye contact:** Flush thoroughly with water for at least 15 minutes. Get medical assistance.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** See section 11 of the SDS for additional information on health hazards.

**Hazards:** See section 11 of the SDS for additional information on health hazards.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Skin and/or eye contact. Flush thoroughly with water for at least 15 minutes. Get medical assistance.

**5. Fire-fighting measures**

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

**Suitable (and unsuitable) 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.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions 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.

**6. Accidental release measures**

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

**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.

**Notification Procedures:** See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

**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.

**7. Handling and storage**

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

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

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
sodium hydroxide	Ceiling	2 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (03 2014)
	Ceil_Time	2 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	2 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling	2 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
		100 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (03 2014)
Ethanediol - Aerosol.	Ceiling	50 ppm 125 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

#### Appropriate Engineering Controls

Provide adequate ventilation. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

#### Individual protection measures, such as personal protective equipment

##### General information:

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Follow training instructions when handling this material.

##### Eyeface protection:

Safety goggles

##### Skin Protection

##### Hand Protection:

Protective gloves should be used if there is a risk of direct contact or splash. Chemical resistant gloves required for prolonged or repeated contact. Butyl rubber (EN374) 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:

Wear suitable protective clothing as protection against splashing or contamination.

**Respiratory Protection:** Under normal conditions of use, respirator protection is not required. In case of inadequate ventilation, use respiratory protection. If respirators are used, OSHA requires compliance with its respiratory protection program (29 CFR 1910.134).

**Hygiene measures:** Do not get in eyes. Observe good industrial hygiene practices. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Wash hands before breaks and immediately after handling the product. Avoid contact with skin.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	> 13 (25 °C)
<b>Melting point/freezing point:</b>	< 0 °C (Literature.)
<b>Initial boiling point and boiling range:</b>	> 100 °C (Literature.)
<b>Flash Point:</b>	> 93.33 °C (Literature.) Not combustible.
<b>Evaporation rate:</b>	Almost no evaporation (20°C).
<b>Flammability (solid, gas):</b>	not applicable
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	not applicable
<b>Relative density:</b>	1.064 (20 °C) (Literature.)
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	not applicable
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.

### Other information

VOC: 0.0 g/l  
 VOC content excluding water

**10. Stability and reactivity**

**Reactivity:** Material is stable under normal conditions.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** Not known.

**Conditions to avoid:** Avoid heat or contamination.

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** By heating and fire, harmful vapors/gases may be formed.

**11. Toxicological information**

**Symptoms related to the physical, chemical and toxicological characteristics**

**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.

**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.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

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

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

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

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s):**  
Disodium metasilicate NOAEL (Rat(Female, Male), Oral, 3 Months): > 227 mg/kg Oral  
Experimental result, Key study

**Specified substance(s):**  
Ethanediol NOAEL (Rat(Male), Oral, 16 Weeks): 150 mg/kg Oral Experimental result,  
Weight of Evidence study  
NOAEL (Rat(Male), Oral, 12 Months): 150 mg/kg Oral Experimental result,  
Supporting study  
NOAEL (Mouse(Female), Dermal, 10 d): 3,549 mg/kg Dermal  
NOAEL (Mouse(Female, Male), Oral, 92 - 96 d): 12,500 ppm(m) Oral  
Experimental result, Weight of Evidence study  
NOAEL (Dog(Male), Dermal, 4 Weeks): 2,200 mg/kg Dermal

#### **Skin Corrosion/Irritation**

**Product:** The health hazard evaluation is based on the toxicological properties of a similar material.

#### **Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Specified substance(s):**  
Ethanediol in vivo (Rabbit, 24 hrs): EU

#### **Respiratory or Skin Sensitization**

**Product:** No data available.

#### **Carcinogenicity**

**Product:** No data available.

##### **IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

##### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

##### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified



**Germ Cell Mutagenicity**

**In vitro**  
**Product:** No data available.

**In vivo**  
**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Target Organs**

No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:** No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Specified substance(s):**

Disodium metasilicate LC 50 (Danio rerio, 96 h): 210 mg/l Experimental result, Key study

sodium hydroxide LC 50 (Leuciscus idus, 48 h): 189 mg/l experimental result

Ethanediol LC 50 (Pimephales promelas, 96 h): 72,860 mg/l experimental result

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

Disodium metasilicate	EC 50 (Daphnia magna, 48 h): 1,700 mg/l Read-across based on grouping of substances (category approach), Key study
sodium hydroxide	LC 50 (48 h): 30 - 100 mg/l experimental result
Ethanediol	EC 50 (48 h): > 100 mg/l experimental result

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Specified substance(s):**

Ethanediol NOAEL (Pimephales promelas, 7 d): 15,380 mg/l experimental result

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Disodium metasilicate	No data available.
Sodium octanoate	No data available.
sodium hydroxide	No data available.
Ethanediol	No data available.

**Other adverse effects:** No data available.

**13. Disposal considerations**

**General information:** Waste disposal should be in accordance with existing federal, state and local environmental control laws.

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

**Contaminated Packaging:** Dispose in accordance with all applicable regulations.

**US. RCRA Hazardous Waste Classification (40 CFR 261)** When discarded in its purchased form, this product meets the criteria of corrosivity, and should be managed as a hazardous waste (EPA Hazardous Waste Number D002).

**14. Transport information**

**DOT**

UN Number	Not regulated.
UN Proper Shipping Name	Not regulated.
Transport Hazard Class(es)	Not regulated.
Packing Group	Not regulated.
Environmental Hazards	Not regulated.
Special precautions for user	Not regulated.

**IMDG**

UN Number	Not regulated.
UN Proper Shipping Name	Not regulated.
Transport Hazard Class(es)	Not regulated.
Packing Group	Not regulated.
Marine Pollutant	Not regulated.
Special precautions for user	Not regulated.

**IATA**

UN Number	Not regulated.
Proper Shipping Name	Not regulated.
Transport Hazard Class(es)	Not regulated.
Packing Group	Not regulated.
Environmental Hazards	Not regulated.
Special precautions for user	Not regulated.
Packing instruction (cargo aircraft)	Not regulated.
Packing instruction (passenger aircraft)	Not regulated.

**15. Regulatory information**

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

<u>Chemical Identity</u>	<u>OSHA hazard(s)</u>
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**CERCLA Hazardous Substance List (40 CFR 302.4):**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
sodium hydroxide	lbs. 1,000
Ethenediol	lbs. 5,000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate (Acute) Health Hazards  
 Skin Corrosion/Irritation  
 Serious Eye Damage/Eye Irritation

**SARA 302 Extremely Hazardous Substance**

<u>Chemical Identity</u>	<u>Reportable quantity</u>	<u>Threshold Planning Quantity</u>
sodium hydroxide		

**SARA 304 Emergency Release Notification**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
sodium hydroxide	lbs. 1,000
Ethenediol	lbs. 5,000

**SARA 311/312 Hazardous Chemical**

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
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**SARA 313 (TRI Reporting)**

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
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**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
sodium hydroxide	Reportable quantity: 1,000 lbs.

**Clean Air Act (CAA) Section 111 SOCMi Intermediate or Final Volatile Organic Compounds (40 CFR 60.489):**

<u>Chemical Identity</u>
Ethenediol

**Clean Air Act (CAA) Section 112, 1990 Amendments, Statutory Hazardous Air Pollutants:**

<u>Chemical Identity</u>
Ethenediol

**Clean Air Act (CAA) Section 112(i) High-Risk Hazardous Air Pollutants (40 CFR 63.74):**

None present.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**US State Regulations****US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Lithium carbonate	Developmental toxin.
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**US. New Jersey Worker and Community Right-to-Know Act**

<u>Chemical Identity</u>
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**US. Massachusetts RTK - Substance List**

<u>Chemical Identity</u>
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**US. Pennsylvania RTK - Hazardous Substances**

<u>Chemical Identity</u>
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**US. Rhode Island RTK**

<u>Chemical Identity</u>
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**US. Toxic Substances Control Act (TSCA)**

SDS\_US - 000001014431

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substance Control Act (U.S. EPA TSCA) 8(b) inventory.

**16. Other information, including date of preparation or last revision**

**Issue Date:** 01-08-2018

**Revision Date:** No data available.

**Version #:** 1.1

**Further Information:** This information is furnished without warranty, expressed or implied, and is believed to be accurate to the best knowledge of Agfa Corporation. The data on this SDS relates only to the specific material designated herein. Agfa Corporation assumes no legal responsibility for use or reliance upon these data.

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