



# Material Safety Data Sheet



## Duo drain unblocker component A

### Section 1. Chemical product and company identification

**Manufacturer** : HG International b.v. **Code** : 1860564  
**Address** : Damsluisweg 70 1332 EJ Almere **MSDS#** : 2.02  
**Country** : Netherlands **Validation date** : 10/2/2009.  
**Telephone No.:** : +31 (0)36 54 94 700 **Print date** : 10/2/2009.  
**Fax** : +31 (0)36 54 94 744 **Responsible name** : P. Stienstra  
**Internet:** : www.hg.eu **Telephone No.:** : +1.705.726.5445  
**Supplier** : Solstrand Trading **Fax** : +1.705.734.0857  
**Address** : 60 Lockhart road Barrie, Ontario L4N 9G8 **Country** : Canada  
**Material uses** : Cleaner.  
**In Case of Emergency** : Chem. Tel Inc. (813) 248 0585 or Toll free (800) 255 3924

### Section 2. Composition, Information on Ingredients

Name	CAS #	% by weight	Exposure limits
sodium hypochlorite	7681-52-9	1 - 5	
Sodium hydroxide	1310-73-2	1 - 5	

### Section 3. Hazards identification

**Physical State and Appearance** : Liquid.

**Emergency overview** : Caution  
IRRITANT.  
May cause skin irritation.  
May cause eye irritation.  
Do not mix with [\*\*\*].acids  
Do not get in eyes, on skin or on clothing.  
Use only in well-ventilated areas.  
Wear suitable gloves and eye/face protection.  
Keep out of the reach of children.  
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.  
In case of contact with eyes, rinse immediately with plenty of water.  
After contact with skin, wash immediately with plenty of water.

**Routes of entry** : Dermal contact. Eye contact. Inhalation. Ingestion.

**Potential acute health effects**

**Eyes** : May cause eye irritation.  
**Skin** : May cause skin irritation.  
**Inhalation** : Irritating to respiratory system.  
**Ingestion** : May cause burns to mouth, throat and stomach.

**Potential chronic health effects** : **CARCINOGENIC EFFECTS:** Classified 3 (Not classifiable for humans.) by IARC [sodium hypochlorite].  
**MUTAGENIC EFFECTS:** Not available.  
**TERATOGENIC EFFECTS:** Not available.

**Medical conditions aggravated by overexposure:** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

**Over-exposure signs/symptoms** : Not available.

[See toxicological information \(section 11\)](#)

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## Section 4. First aid measures

- Eye Contact** : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Skin Contact** : Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Inhalation** : Get medical attention immediately. Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Notes to Physician** : Not available.

## Section 5. Fire fighting measures

- Flammability of the product** : Non-flammable.
- Auto-ignition Temperature** : Not available.
- Flash Points** : Not available.
- Flammable limits** : Not available.
- Products of combustion** : Decomposition products may include the following materials:  
halogenated compounds  
metal oxide/oxides
- Fire hazards in presence of various substances** : Not available.
- Explosion hazards in presence of various substances** : Not available.
- Fire fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.  
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.  
In a fire or if heated, a pressure increase will occur and the container may burst.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Special remarks on fire hazards** : Not available.
- Special remarks on explosion hazards** : Not available.

## Section 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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**Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## Section 7. Handling and storage

**Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure Controls, Personal Protection

**Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

**Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

**Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Other protection** : Not available.

**Personal protective equipment (Pictograms)**



**Personal protection in case of a large spill** : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.

**Product Name**

Sodium hydroxide

### Exposure limits

**ACGIH TLV (United States, 9/2004).**

CEIL: 2 mg/m<sup>3</sup> Form: All forms

[Consult local authorities for acceptable exposure limits.](#)

## Section 9. Physical and chemical properties

**Physical State and Appearance** : Liquid.

**Color** : Yellow. [Light]

**Odor** : Chlorine.

**pH** : 13 to 13,5 [Conc. (% w/w): 100%]

**Relative density** : 1,089 g/cm<sup>3</sup> [20°C (68°F)]

**Viscosity** : Not available.

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- Solubility** : Easily soluble in the following materials: hot water.  
Soluble in the following materials: cold water.
- Flash point** : Not available.
- Explosive properties** : Not available.
- Oxidizing properties** : Not available.
- Physical chemical comments** : Solubility in other solvents: not soluble

## Section 10. Stability and reactivity

- Stability and Reactivity** : Unstable.
- Conditions of instability** : Contact with acids liberates toxic gas.
- Incompatibility with various substances** : Reactive or incompatible with the following materials: acids.
- Hazardous Decomposition Products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Will not occur.

## Section 11. Toxicological information

- Chronic effects on humans** : **CARCINOGENIC EFFECTS:** Classified 3 (Not classifiable for humans.) by IARC [sodium hypochlorite]. Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, eye, lens or cornea.
- Other toxic effects on humans** : Hazardous by the following route of exposure: of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant).
- Special remarks on toxicity to animals** : Not available.
- Special remarks on chronic effects on humans** : Not available.
- Special remarks on other toxic effects on humans** : Not available.
- Specific effects**
- Carcinogenic effects** : No known significant effects or critical hazards.
- Mutagenic effects** : No known significant effects or critical hazards.
- Reproduction toxicity** : No known significant effects or critical hazards.

## Section 12. Ecological information

- |                     |                            |            |            |
|---------------------|----------------------------|------------|------------|
| sodium hypochlorite | Daphnia magna (EC50)       | 48 hour(s) | 0.04 mg/l  |
|                     | Daphnia magna (EC50)       | 48 hour(s) | 0.17 mg/l  |
|                     | Daphnia magna (EC50)       | 48 hour(s) | 1.57 mg/l  |
|                     | Oncorhynchus mykiss (LC50) | 96 hour(s) | 0.059 mg/l |
|                     | Oncorhynchus mykiss (LC50) | 96 hour(s) | 0.09 mg/l  |
|                     | Oncorhynchus mykiss (LC50) | 96 hour(s) | 0.2 mg/l   |
| Sodium hydroxide    | Fish (LC50)                | 96 hour(s) | 72 mg/l    |
- BOD and COD** : Not available.
- Biodegradable/OECD** : Readily biodegradable
- Mobility** : Not available.
- Products of degradation** : Not applicable.
- Toxicity of the products of biodegradation** : Not available.
- Special remarks on the products of biodegradation** : Readily biodegradable






## Section 13. Disposal considerations

**Waste information** : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Waste stream** : Not available.

[Consult your local or regional authorities.](#)

## Section 14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
<b>DOT Classification</b>	1760	Corrosive liquid, n.o.s. (sodium hypochlorite)	8	III		<b>Limited quantity</b> Yes.
<b>TDG Classification</b>	1760	Corrosive liquid, n.o.s. (sodium hypochlorite)	8	III		<b>Special provisions</b> Limited quantity
<b>ADR/RID Class</b>	1760	UN 1760, "dangerous goods in limited quantities of class 8", III, ADR (sodium hypochlorite)	8	III		<b>Hazard identification number</b> 80  <b>Reportable quantity</b> 12  <b>Limited quantity</b> LQ19
<b>IMDG Class</b>	1760	"dangerous goods in limited quantities of class 8" UN 1760, PG III (sodium hypochlorite)	8	III		<b>Emergency schedules (EmS)</b> F-A, S-B  <b>Reportable quantity</b> 30
<b>IATA-DGR Class</b>	1760	"dangerous goods in limited quantities of class 8" UN 1760, PG III (sodium hypochlorite)	8	III		-

## Section 15. Regulatory information

**WHMIS (Canada)** : Class E: Corrosive material  
**CEPA Toxic substances**: None of the components are listed.  
**Canadian ARET**: None of the components are listed.  
**Canadian NPRI**: None of the components are listed.  
**Alberta Designated Substances**: None of the components are listed.  
**Ontario Designated Substances**: None of the components are listed.  
**Quebec Designated Substances**: None of the components are listed.

### [International regulations](#)

**EINECS** :  
**DSCL (EEC)** : R36/38- Irritating to eyes and skin.

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**International lists** : Australia inventory (AICS): Not determined.  
 China inventory (IECSC): Not determined.  
 Korea inventory (KECI): Not determined.  
 Philippines inventory (PICCS): Not determined.  
 Japan inventory (ENCS): Not determined.

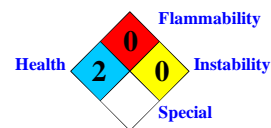
## Section 16. Other information

**Label Requirements** : IRRITANT.  
 May cause skin irritation.  
 May cause eye irritation.

### Hazardous Material Information System (U.S.A.)

Health	*	2
Fire hazard		0
Reactivity		2
Personal protection		C

### National Fire Protection Association (U.S.A.)



**References** : Not available.

**Other special considerations** : Not available.

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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.