



DuPont™ Chlor-A-Foam™ XL

Version 2.0

Revision Date 08/31/2009

Ref. 130000030738

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ Chlor-A-Foam™ XL
 Tradename/Synonym : DuPont™ Chlor-A-Foam™ XL All Premise Heavy Duty Chlorinated Cleaner

MSDS Number : 130000030738
 Product Use : Cleaning agent

Manufacturer : DuPont
 1007 Market Street
 Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)
 Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
 Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

Skin : May cause: Severe skin irritation, Burns, Ulceration.

Eyes : May cause: Severe eye irritation, Other effects may include:, Burns, corneal or conjunctival ulceration.

Inhalation : May cause respiratory tract irritation.

Ingestion : May cause: Corrosion, Gastrointestinal tract, Other effects may include:, Abdominal discomfort, Nausea, Pain, Diarrhoea.

Target Organs

Sodium hypochlorite : Respiratory Tract Mucous membranes

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Water	7732-18-5	>80%
Potassium hydroxide	1310-58-3	5 - 10 %
Sodium hypochlorite	7681-52-9	1 - 3 %

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SECTION 4. FIRST AID MEASURES

- Skin contact : In case of contact, immediately flush skin with plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Consult a physician if necessary.
- Eye contact : Rinse immediately with plenty of water and seek medical advice.
- Inhalation : Move to fresh air. Consult a physician if necessary.
- Ingestion : Call a poison control centre or doctor for treatment advice. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.

SECTION 5. FIRE-FIGHTING MEASURES

- Flammable Properties
- Flash point : closed cup
does not flash
- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Firefighting Instructions : Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment. Evacuate personnel to safe areas.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Wear suitable protective equipment. Wear respiratory protection.
- Spill Cleanup : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Avoid inhalation, ingestion and contact with skin and eyes. Do not get on clothing. Wash off with plenty of water. Wash clothing after use. Do not breathe vapours or spray mist. When using do not eat, drink or smoke.
- Storage : Keep out of the reach of children. Keep away from food, drink and animal



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feedingstuffs. Keep container closed when not in use. Avoid excessive heat.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Provide adequate ventilation. Wear NIOSH approved respiratory protection as appropriate.

Hand protection : Material: Impervious gloves

Eye protection : Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of material.

Skin and body protection : Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.

Exposure Guidelines

Exposure Limit Values

Potassium hydroxide

PEL (Permissible Exposure Limit) (OSHA) 2 mg/m3 Ceiling

TLV (ACGIH) 2 mg/m3

Sodium hydroxide

PEL (Permissible Exposure Limit) (OSHA) 2 mg/m3 8 hr. TWA

PEL (Permissible Exposure Limit) (OSHA) 2 mg/m3 Ceiling

TLV (ACGIH) 2 mg/m3

AEL * (DUPONT) 2 mg/m3 15 minute TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid
 Color : colourless
 Odor : slight, musty
 pH : 12 - 13
 Freezing point : 0 °C (32 °F)
 Boiling point : 99 °C (210 °F)
 % Volatile : 71 - 74 %
 Density : 9.34 - 9.59 lb/gal
 Density : 1.12 - 1.15 g/ml
 Specific Gravity : 1.13

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Water solubility : (Water=1.0)
: completely soluble 100%

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Stable at normal temperatures and storage conditions. Decomposes on heating.

Incompatibility : Reducing agents Mineral acids Ammonia

Hazardous decomposition products : Decomposition does not occur under normal use conditions.

Hazardous reactions : Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Potassium hydroxide
Oral LD50 : 273 mg/kg, rat

Skin irritation : Species: animals (unspecified species)
Corrosive

Eye irritation : Species: animals (unspecified species)
Corrosive

Sodium hypochlorite
Dermal LD50 : > 10,000 mg/kg, rabbit

Oral LD50 : 8,910 mg/kg, rat

Inhalation 4 h LC50 : ca. 0.6 mg/l, rat
Lung damage
Fluid retention in lungs (pulmonary oedema)

Skin irritation : Species: rabbit
Corrosive

Eye irritation : Species: rabbit
Corrosive

Skin sensitization : Species: human
Causes sensitization.

Repeated dose toxicity : Inhalation, human
There are reports of human respiratory sensitization.

Mutagenicity : Caused genetic damage in cultured mammalian cells., Experiments



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showed mutagenic effects in cultured bacterial cells.

Reproductive toxicity : Evidence suggests the substance is not a reproductive toxin in animals.

Teratogenicity : Evidence suggests the substance is not a developmental toxin in animals.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Sodium hypochlorite

96 h LC50 : Fish (unspecified species) 0.065 mg/l

48 h LC50 : Daphnia magna (Water flea) 0.032 mg/l

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : In accordance with local and national regulations. Do not flush into surface water or sanitary sewer system. Do not contaminate water, food or feed by disposal.

SECTION 14. TRANSPORT INFORMATION

DOT	UN-Number	: 1760
	Proper shipping name	: Corrosive liquids, n.o.s. (Sodium hypochlorite, Potassium hydroxide)
	Class	: 8
	Packaging group	: II
	Labelling No.	: 8
IATA_C	Reportable Quantity	: 100 lbs (Sodium hypochlorite)
	UN-Number	: 1760
	Proper shipping name	: Corrosive liquid, n.o.s. (Sodium hypochlorite, Potassium hydroxide)
	Class	: 8
	Packaging group	: II
IMDG	Labelling No.	: 8
	UN-Number	: 1760
	Proper shipping name	: Corrosive liquid, n.o.s. (Sodium hypochlorite, Potassium hydroxide)
	Class	: 8
	Packaging group	: II
	Labelling No.	: 8


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SECTION 15. REGULATORY INFORMATION

TSCA Status	: Listed.
SARA 313 Regulated Chemical(s)	: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
CERCLA Reportable Quantity	: 3,521 lbs Based on the percentage composition of this chemical in the product.: Sodium hypochlorite
PA Right to Know Regulated Chemical(s)	: Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Potassium hydroxide, Sodium hypochlorite, Sodium hydroxide
NJ Right to Know Regulated Chemical(s)	: Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Potassium hydroxide, Sodium hydroxide

SECTION 16. OTHER INFORMATION

	HMIS
Health	: 2
Flammability	: 0
Reactivity/Physical hazard	: 0

PPE : Personal Protection rating to be supplied by user depending on use conditions.

MSDS preparation date : 08/31/2009

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Do not use for medical-clinical purposes.

Contact person : MSDS Coordinator, DuPont Chemical Solutions Enterprise, Wilmington, DE 19898, (800) 441-7515

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information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Significant change from previous version is denoted with a double bar.