



DuPont™ Biosolve™ Plus

Version 2.0

Revision Date 08/31/2009

Ref. 130000028604

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™ Biosolve™ Plus
 Tradename/Synonym : DuPont™ Biosolve™ Plus Multipurpose Heavy Duty Cleaner

MSDS Number : 130000028604
 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: Corrosion, Effects of skin contacts may include:, Severe skin irritation, Burns.

Eyes : May cause: Severe irritation, Other effects may include:, corneal damage, Impairment of vision, Blindness.

Inhalation : May cause irritation of respiratory tract.

Ingestion : Gross overexposure may cause: Burns, Effects due to ingestion may include:, Irritation, Nausea, Diarrhoea.

Carcinogenicity

Material	IARC	NTP	OSHA
Trisodium Nitrotriacetate	2B2B		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Water	7732-18-5	>75%
Sodium hydroxide	1310-73-2	7 - 13 %
Surfactants		5 - 10 %
Chelating Agent		1 - 5 %

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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 : > 93 °C (> 199 °F)
Method : Pensky-Martens closed cup - PMCC
- 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.


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Storage : Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Keep container closed when not in use.

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

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 : viscous liquid
 Color : blue
 Odor : strong, aliphatic
 pH : 13 - 14
 Freezing point : 0 °C (32 °F)
 Boiling point : 100 °C (212 °F)
 % Volatile : 61 - 63 %
 Vapour Pressure : 760 mm Hg at 100 °C (212 °F)
 Density : 9.34 - 9.51 lb/gal
 Density : 1.12 - 1.14 g/ml
 Specific Gravity : 1.13
 (Water=1.0)
 Water solubility : completely soluble 100%


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SECTION 10. STABILITY AND REACTIVITY

- Conditions to avoid : Stable at normal temperatures and storage conditions.
- Incompatibility : Metals Acids oxidizers
- Hazardous decomposition products : Decomposition does not occur under normal use conditions.
- Hazardous reactions : Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

- Sodium hydroxide
Oral ALD : 500 mg/kg, rat
- Oral LD50 : 325 mg/kg, rabbit
- Inhalation 2 h LC50 : 5,750 mg/l, rat
Information given is based on data obtained from similar substances.
- Skin irritation : Species: animals (unspecified species)
Corrosive
- Eye irritation : Species: rabbit
Corrosive
- Skin sensitization : Species: human
Patch test on human volunteers did not demonstrate sensitization properties.
- Repeated dose toxicity : Inhalation
Respiratory irritation
- Oral - drinking water
Reduced growth rate
- Mutagenicity : Evidence suggests this substance does not cause genetic damage in animals., Evidence suggests this substance does not cause genetic damage in cultured bacterial cells.

SECTION 12. ECOLOGICAL INFORMATION

- Aquatic Toxicity
Sodium hydroxide
24 h LC50 : Fish (unspecified species) 35 - 189 mg/l



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48 h LC50 : Daphnia 33 - 450 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	: 1824
	Proper shipping name	: Sodium hydroxide solution
	Class	: 8
	Packaging group	: II
	Labelling No.	: 8
IATA_C	Reportable Quantity	: 1,000 lbs (Sodium hydroxide)
	UN-Number	: 1824
	Proper shipping name	: Sodium hydroxide solution
	Class	: 8
	Packaging group	: II
IMDG	Labelling No.	: 8
	UN-Number	: 1824
	Proper shipping name	: Sodium hydroxide solution
	Class	: 8
	Packaging group	: II
	Labelling No.	: 8

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 : 13,072 lbs
Based on the percentage composition of this chemical in the product.: Sodium hydroxide

California Prop. 65 : WARNING! This product contains a chemical known to the State of California to cause cancer.
Dichloroacetic acid

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):



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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): Sodium hydroxide

SECTION 16. OTHER INFORMATION

		HMS
Health	:	3
Flammability	:	1
Reactivity/Physical hazard	:	0
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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