

Flochem 12B

Version 1.1 Revision Date: 03/21/2024

SECTION 1. IDENTIFICATION

Product name : Flochem 12B

Synonyms : Sodium Hypochlorite Solution

Recommended use of the chemical and restrictions on use

Recommended use : Disinfectants and general biocidal products

Restricted Uses : No data available

Manufacturer or supplier's details

Company : Univar Solutions Canada Ltd.

Address 64 Arrow Road

North York, ON, M9M 2L9

Canada

Emergency telephone number:

Local Emergency Contact: During Office hours Monday-Friday, 8.00 am - 4.30 pm (Pacific

Standard Time): 1-866-686-4827

Additional Information: : Responsible Party: Product Compliance Department

E-mail: SDSNA@univarsolutions.com SDS Requests: 1-855-429-2661 Website: www.univarsolutions.com

Special Notes: : Registration Number 29876 Pest Control Products Act

SECTION 2. HAZARD IDENTIFICATION

Hazardous Classification of the substance or mixture

Corrosive to metals : Category 1

Skin corrosion : Category 1B

Serious eye damage : Category 1

Label elements

Hazard pictograms

T.

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**

P234 Keep only in original packaging. P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection. **Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

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induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/ doctor.

P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	% by Weight	Synonyms
7681-52-9	Sodium hypochlorite	10 - 30	Sodium hypo-
			chlorite
1310-73-2	Sodium hydroxide	1 - 2	Sodium hy-
			droxide

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST-AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with difficul-

ty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

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> Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire-

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

: No hazardous combustion products are known

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Use personal protective equipment. tive equipment and emer-

gency procedures

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

: Do not breathe vapours/dust. Advice on safe handling

Avoid contact with skin and eyes.

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For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1310-73-2	Sodium hydroxide	(c)	2 mg/m3	CA AB OEL
		С	2 mg/m3	CA BC OEL
		С	2 mg/m3	CA QC OEL

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type

Combined particulates and inorganic gas/vapour type

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Greenish Yellow

Odour : Chloroform-like odor, pungent

Odour Threshold : No data available

pH : 12 - 14 Freezing Point (Freezing : -20 °C (-4 °F)

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Point)

Boiling Point : No data available Flash point : No data available

Evaporation rate : No data available Flammability (solid, gas) : No data available Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available Relative vapour density : No data available

Relative density : 1.076 - 1.168 @ 20 - 25 °C (68 - 77 °F)

Reference substance: (water = 1)

Density : No data available

Solubility(ies)

Water solubility : Miscible

Solubility in other solvents : No data available Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : No data available Thermal decomposition : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

: No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Incompatible materials : Acids

Combustible material Halogenated compounds

Metals metal salts Organic materials

organic nitro compounds

Zinc

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Components: 7681-52-9:

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Acute oral toxicity : LD50 (Rat, male): > 2,000 mg/kg

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Components:

7681-52-9:

Species: Rabbit Result: Causes burns.

1310-73-2: Species: Rabbit

Result: Causes severe burns.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Components:

7681-52-9:

Species: Rabbit

Result: Risk of serious damage to eyes.

1310-73-2: Species: Rabbit

Result: Risk of serious damage to eyes.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by ACGIH.

STOT - single exposure

Components:

7681-52-9:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Further information

Product:

Remarks: No data available

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

7681-52-9:

Toxicity to fish : LC50 (Salmo gairdneri (Rainbow Fish)): 0.06 mg/l

Exposure time: 96 h

Test Type: flow-through test

LC50 (Pimephales promelas (fathead minnow)): 5.9 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.141 mg/l

Exposure time: 48 h

Test Type: flow-through test

EC50 (Ceriodaphnia dubia): 0.035 mg/l

Exposure time: 48 h

Test Type: flow-through test

Toxicity to algae : IC50: 0.023 mg/l

Exposure time: 7 d

Test Type: flow-through test

M-Factor (Acute aquatic tox-

icity)

: 10

Acute aquatic toxicity- As-

sessment

: Very toxic to aquatic life.

Chronic aquatic toxicity- As-

sessment

: Toxic to aquatic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and

federal regulations.

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Uni-

var Solutions ChemCare: 1-800-637-7922

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

TDG (Transportation of Dangerous Goods):

UN1791, HYPOCHLORITE SOLUTION, 8, III

IATA (International Air Transport Association):

UN1791, Hypochlorite solution, 8, III

IMDG (International Maritime Dangerous Goods):

UN1791, HYPOCHLORITE SOLUTION, 8, III

SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : not determined

NZIoC : not determined

ENCS : not determined

KECI : not determined

PICCS : not determined

IECSC : not determined

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SECTION 16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions EHS Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

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Material number:

16214801, 16214798, 16214531, 16214541, 16214540, 16214539, 16214538, 16214869, 16214533, 16214532, 16214868, 16214530, 16214529, 16214528, 16174668

Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%		
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level		
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency		
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health		
CNS	Central Nervous System	NTP	National Toxicology Program		
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals		
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level		
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration		
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration		
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit		
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances		
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic		
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act		
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit		
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.		
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value		
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average		
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act		
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials		
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System		

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LC50 Lethal Concentration 50%

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