

Safety Data Sheet



Revision Date 23-Jul-2015
Version 1

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name DFC Oxidizing 14000 Cleaner

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Professional Cleaning Agent

1.3 Details of the supplier of the safety data sheet

Supplier Legend Brands Europe
Chemspec
22 Plover Close Interchange Park
Newport Pagnell MK16 9PS, UK
+44 (0) 1908 611211

For further information, please contact: msds@chemspecworld.com

1.4 Emergency telephone number

Emergency telephone number Chemtrec: +1 703-527-3887 ex-USA
Chemtrec: 1-800-424-9300 USA

Europe	112
Austria	+43 1 406 43 43
Belgium	Poison center (BE): +32 70 245 245
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Finland	Poison Information Centre (FI): +358 9 471 977
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790 Poison Center Nord: +49 551 19240 (24h available English / German)
Ireland	National Poisons Information Centre (IE): +353 1 8379964
Iceland	+354 543 2222
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Luxembourg	112
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals) Poisons Information (NO): + 47 22 591300
Norway	Poison Information Center (PT): +351 21 330 3284
Portugal	Poison Information Service (ES): +34 91 562 04 20
Spain	Poisons Information Center (SV): +46 8 33 12 31
Sweden	Poison Center: Tel 145; +41 44 251 51 51
Switzerland	111
United Kingdom	

2. Hazards identification

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Skin corrosion/irritation	Category 1 - (H314)
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Serious eye damage/eye irritation	Category 1 - (H318)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2 Label elements



Signal Word

Danger

Hazard Statements

H314 - Causes severe skin burns and eye damage

H410 - Very toxic to aquatic life with long lasting effects

EUH031 - Contact with acids liberates toxic gas

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear eye protection/ face protection

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

2.3. Other Hazards

No information available

3. Composition/information on ingredients

3.1 Substances

This product is a mixture. Health hazard information is based on its components.

3.2 Mixtures

Chemical Name	EC-No	CAS-No	Weight %	Classification (1272/2008/EC)	REACH Registration Number
Sodium carbonate	207-838-8	497-19-8	2.5 - 10	Eye Irrit. 2 (H319)	no data available
Sodium Hypochlorite	231-668-3	7681-52-9	2.5 - 10	Skin Corr. 1B (H314) Aquatic Acute 1 (H400) (EUH031)	no data available
Sodium hydroxide	215-185-5	1310-73-2	< 1	Skin Corr. 1A (H314)	01-2119457892-27-XX XX

For the full text of the H-Statements mentioned in this Section, see Section 16

4. First Aid Measures

4.1 Description of first-aid measures

General advice

Immediate medical attention is required.

Inhalation	Move to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Skin contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes.
Eye contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which shall not be used for safety reasons

No information available.

5.2 Special hazards arising from the substance or mixture

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

Refer to protective measures listed in Sections 7 and 8.

Advice for emergency responders

For personal protection see section 8.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological information.

6.3 Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically and collect in suitable container for disposal.

6.4 Reference to other sections

See section 8 for more information.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

Hygiene measures When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. For environmental protection, remove and wash all contaminated protective equipment before re-use. Wear suitable gloves and eye/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

7.3 Specific end uses

Specific use(s)

No information available

Exposure scenario

No information available.

8. Exposure controls/personal protection

8.1 Control parameters

Exposure Limit Values

Chemical Name	European Union	Austria	Belgium	Denmark	Finland	France
Sodium hydroxide 1310-73-2		STEL 4 mg/m ³ TWA: 2 mg/m ³	Maximum Limit Value: 2 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³ Ceiling: 2 mg/m ³	TWA: 2 mg/m ³
Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	The Netherlands
Sodium hydroxide 1310-73-2		STEL: 2 mg/m ³	STEL: 2 mg/m ³			
Chemical Name	Norway	Portugal	Spain	Sweden	Switzerland	The United Kingdom
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³	LLV: 1 mg/m ³ CLV: 2 mg/m ³	STEL: 2 mg/m ³ TWA: 2 mg/m ³	STEL: 2 mg/m ³

TWA:	Time weighted average
STEL:	Short term exposure limit
LLV:	Level Limit Value
STV:	Short Term Value

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection

Safety glasses with side-shields.

Hand Protection

Rubber/latex/neoprene or other suitable chemical resistant gloves.

Skin and body protection

Impervious clothing. Impervious gloves. Boots. Chemical resistant apron.

Respiratory protection

No special protective equipment required.

Hygiene measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. For environmental protection, remove and wash all contaminated protective equipment before re-use. Wear suitable gloves and eye/face protection.

Environmental Exposure Controls

Local authorities should be advised if significant spillages cannot be contained. Do not allow material to contaminate ground water system. Prevent product from entering drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear liquid
Color	Colorless
Odor	No information available
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	12.5	
Melting/freezing point		No information available
Boiling point/boiling range		No information available
Flash Point		No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity	1.14	
Water solubility		No information available
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidizing Properties		No information available

9.2 Other information

Volatile organic compounds (VOC) content No information available

10. Stability and Reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to Avoid

Exposure to air or moisture over prolonged periods.

10.5 Incompatible Materials

No materials to be especially mentioned

10.6 Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product Information

The product itself has not been tested.

Inhalation	There are no data available for this product.
Eye contact	There are no data available for this product.
Skin contact	There are no data available for this product.
Ingestion	There are no data available for this product.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 49,027.00 mg/kg

Unknown Acute Toxicity

10.4310197% of the mixture consists of ingredient(s) of unknown toxicity
< 1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
7.4419497 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
10.4310197 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
10.4310197 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
10.4310197 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Skin corrosion/irritation	No information available.
Eye damage/irritation	No information available.
Respiratory or skin sensitization	No information available.

Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Specific target organ systemic toxicity (single exposure)	No information available.
Specific target organ systemic toxicity (repeated exposure)	.
Chronic toxicity	Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risks of irreversible effects.
Aspiration hazard	No information available.

12. Ecological information

12.1 Toxicity

< 1% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity effects

Harmful to aquatic organisms Very toxic to aquatic organisms

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Sodium carbonate		LC50: 96 h <i>Lepomis macrochirus</i> 300 mg/L static LC50: 96 h <i>Pimephales promelas</i> 310 - 1220 mg/L static	EC50: 48 h <i>Daphnia magna</i> 265 mg/L
Sodium Hypochlorite		LC50: 96 h <i>Pimephales promelas</i> 0.06 - 0.11 mg/L flow-through LC50: 96 h <i>Pimephales promelas</i> 4.5 - 7.6 mg/L static LC50: 96 h <i>Lepomis macrochirus</i> 0.4 - 0.8 mg/L static LC50: 96 h <i>Lepomis macrochirus</i> 0.28 - 1 mg/L flow-through LC50: 96 h <i>Oncorhynchus mykiss</i> 0.05 - 0.771 mg/L flow-through LC50: 96 h <i>Oncorhynchus mykiss</i> 0.03 - 0.19 mg/L semi-static LC50: 96 h <i>Oncorhynchus mykiss</i> 0.18 - 0.22 mg/L static	EC50: 48 h <i>Daphnia magna</i> 0.033 - 0.044 mg/L Static
Sodium hydroxide		LC50: 96 h <i>Oncorhynchus mykiss</i> 45.4 mg/L static	

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects.

No information available.

13. Disposal Considerations

13.1 Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Do not re-use empty containers.
Other information	According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. Transport Information

ADR

14.1 UN Number	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

IMDG

14.1 UN Number	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to MARPOL 73/78 and the IBC Code	No information available

IATA

14.1 UN Number	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Germany

Chemical Name	French RG number	Title
Sodium Hypochlorite 7681-52-9	RG 65	-

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
DSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies
AICS	Complies
KECL	Complies
NZIoC	Complies

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

15.2 Chemical Safety Assessment

No information available

16. Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H314 - Causes severe skin burns and eye damage

H319 - Causes serious eye irritation

H400 - Very toxic to aquatic life

EUH031 - Contact with acids liberates toxic gas

Prepared By Chemspec Regulatory Affairs/Product Safety

Revision Date 23-Jul-2015

Revision Note

Not Applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008/EC.

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet