

SECTION 1: SUBSTANCE IDENTIFICATION AND COMPANY INFORMATION.

1.1 PRODUCT IDENTIFICATION

PRODUCT NAME: **DF-200 HF COMBINED FOR USE.**

BRAND: DF-200 HF PART A COMBINED WITH PART B AND PART C.

COMPOSITION: Biodegradable mixture of cationic surfactants, non-ionic

surfactants, hydrogen peroxide, glycerol diacetate, water and

inert ingredients.

NAME OF THE SUBSTANCE 1: Compound of quaternary ammonium ion compounds, alkyl

dimethyl benzyl chloride (50% C14, 40% C12, 10% C16)

ammonium

 CE NUMBER (EINECS):
 270-325-2

 CAS NUMBER:
 68424-85-1

NAME OF THE SUBSTANCE 2: Compound of quaternary ammonium penthamethyltallowalkyl-

1,3-propane diammonium dichloride

CE NUMBER (EINECS): 271-762-1 CAS NUMBER: 68607-29-4

NAME OF SUBSTANCE 3: Hydrogen Peroxide

 CE NUMBER (EINECS)
 231-765-0

 CAS NUMBER
 7722-84-1

NAME OF SUBSTANCE 4 Glycerol Diacetate

CE NUMBER (EINECS): 246-941-2 CAS NUMBER: 25395-31-7

1.2 IDENTIFIED RELEVANT USES OF THE SUBSTANCE OR MIXTURE AND INADVISABLE USES

IDENTIFIED RELEVANT USES OF THE SUBSTANCE

Product used: **DF-200 HF PART A** (49%) combined with **DF-200 HF PART B** (49%) and **DF-200 HF PART C** (2%) for its application; mix done by the applicator in the fogging, foaming or spraying device.

The product is designed specifically as a general decontaminant, cleaner and disinfectant for use in homes, hospitals, commercial facilities and vehicles. It is formulated to disinfect hard, non-porous, inanimate environmental surfaces such as floors, walls, metal surfaces, stainless steel, porcelain, glazed ceramic tile, plastic surfaces, bathrooms, shower stalls, bathtubs, hard nonporous cabinets, walls of swimming pools, HVAC systems, ducts ventilation, filters, and hospital waste. May be used in the kitchen on non-food contact surfaces. If used on food contact surfaces, rinse with potable water prior to food contact. In addition, this product deodorizes areas that are hard to keep fresh smelling including garbage cans, basements, restrooms, and areas prone to odors caused by microorganisms.

For a complete list of applications, see section 16

INADVISABLE USESNo information available.

1.3 PROVIDER OF THE SAFETY DATA SHEET

PROVIDER: NEOSAN LABS INC.

609 BROADWAY BLVD N.E.

ALBUQUERQUE. NEW MEXICO. 87102 USA

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contact@neosanlabs.com

1.4 EMERGENCY TELEPHONE

Information updated of the product's composition has been sent to the Toxicology Information Service (National Institute of

Toxicology and Forensic Sciences).

In case of poisoning, call Toxicology Information Service

POISON CENTER +1 800-222-1222

24 h/365 days

SECTION 2: HAZARDS IDENTIFICATION.

Under conditions of intended use this product is not considered hazardous and does not pose a risk to health.

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION REGULATION CE 1272/2008 Health

(CLP-GHS) Acut

Acute Tox. 4-Acute Toxicity Category 4 - H302/332

Skin Corr 2 - Corrosion /skin irritation Category 2 - H315

Eye Dam 2 - Serious eye damage / eye irritation Category 2 -

H319

Environmental:

Aquatic Toxicity, Category 3

CLASSIFICATION BY THE DIRECTIVE 67/548/CEE

(to see the full text of the risk phrases, refer to

SECTION 16)

Harmful - R20/22

Irritant - R36/38

2.2 LABEL ELEMENTS

Labelled by the GHS regulation and CE 1272/2008 [CLP] Hazard pictograms



Warning Words:

Warning

Indications of Warning:

H302/332 - Harmful if swallowed or inhaled

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary statements:

Prevention.

P 261 - Avoid breathing mist / vapours

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P 280 - Wear gloves (resistant to chemical products [butyl rubber, nitrile and neoprene, polyethylene, polyvinyl chloride]) / protective clothing / eye protection (face shield or safety glasses)

P 284 - Wear respiratory protective equipment (air respirator or SCBA)

P 301/312 - IF SWALLOWED: Call the TOXICOLOGY INFORMATION SERVICE or doctor if feeling unwell.

P 304/340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P 312 - Call the TOXICOLOGY INFORMATION SERVICE or doctor if feeling unwell.

P 305/351/338 - IF CONTACT WITH EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if using and easy to remove. Continue rinsing.

P 322 - Specific Measures

(See IF SWALLOWED: If victim is able to swallow, give water or milk quickly. DO NOT induce vomiting unless instructed to do so from the toxicology service or a Physician. Do not introduce anything in the mouth to an unconscious person. Use of gastric lavage may be contraindicated because of the high probability of mucosal lesions.

P 337/313 - If eye irritation persists: consult a Physician. Storage

P 402/404 - Store in a dry place. Store in a closed container. Disposal

P 501 - Disposal should be in accordance with applicable regional, national and local laws and regulations

OTHER HAZARDS

2.3. HAZARD RATING (NFPA)

NFPA CODES

HEALTH: 1 / FLAMMABILITY: 0 / REACTIVITY: 0



HMIS RATING

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	Section 8

SECTION 3: COMPOUND/INFORMATION ABOUT COMPOUNDS					
3.1 SUBSTANCE	3.1 SUBSTANCE				
Type of identifier of the product by article 18, paragraph 2, by the regulation (CE) n.°1272/200	Identification number	Identification name	Content mass% (or grams)	CE number:	
CAS Number	68424-85-1	Compound of quaternary	3% (m/m)	270-325-2	

Unknown

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CAS Number.	68607-29-4	ammonium ion compounds, alkyl dimethyl benzyl chloride (50% C14, 40% C12, 10% C16) ammonium. Compound of quaternary ammonium penthamethyltallowalkyl- 1,3-propane diammonium dichloride	1% (m/m)	271-762-1
CAS Number	7722-84-1	Hydrogen peroxide	3.95% (m/m)	231-765-0
CAS Number	25395-31-7	Glycerol Diacetate	2% (m/m)	246-941-2

DF-200 HF COMBINED FOR USE: Biodegradable mixture of cationic, non-ionic surfactants hydrogen peroxide, glycerol diacetate and inert ingredients.

3% of the quaternary ammonium ion compounds, chlorides, alkyl dimethyl benzyl ammonium, 1% of quaternary ammonium penthamethyltallowalkyl-1,3-propane diammonium dichloride, 3.95% of hydrogen peroxide, 2% of Glycerol Diacetate and 90.05% water and inert ingredients.

SECTION 4: FIRST AID MEASURES	
4.1 DESCRIPTION OF FIRST AID	
IN CASE OF EYE CONTACT:	Flush cautiously with running water for a period of between 15 and 20 minutes. Remove contact lenses, if they are easy to remove. Continue rinsing. If eye irritation persists: consult a Physician.
IN CASE OF SKIN CONTACT:	Take off contaminated clothing and wash before reuse. Wash immediately and abundant for a period of between 15 and 20 minutes. If skin irritation persists: consult a Physician.
IF INHALED:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call the TOXICOLOGY INFORMATION SERVICE or a Physician if feeling unwell.
IN CASE OF INGESTION:	Call the TOXICOLOGY INFORMATION SERVICE or a Physician if feeling unwell. Needs specific measures. If victim is able to swallow, give water or milk quickly. DO NOT induce vomiting unless instructed to do so from the toxicology service or a doctor. Do not introduce anything in the mouth to an unconscious person. Use of gastric lavage may be contraindicated because of the high probability of mucosal lesions.

IN CASE OF EYE CONTACT:	May cause severe eye irritation
IN CASE OF SKIN CONTACT:	May cause skin irritation.
IF INHALED:	Shortness of breath. May be irritating to mucous membranes and upper respiratory tract.
IN CASE OF INGESTION:	May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

4.2 MAIN SYMPTOMS AND EFFECTS ACUTE AND DELAYED

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4.3 MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED IMMEDIATELY

MEDICAL NOTE:

IF SWALLOWED: The use of gastric lavage may be contraindicated due to the high probability of injury to the mucous.

Treat symptomatically and supportively

SECTION 5: FIRE FIGHTING MEASURES

Material is not flammable or combustible.

5.1 EXTINGUISHING MEASURES

Same as those used for surrounding fire.

5.2 SPECIFIC HAZARDS FROM THE SUBSTANCE OR MIXTURE:

Non-flammable substance. No unusual risks of fire and explosion.

In case of fire, the thermal decomposition may give off nitrous oxides and ammoniac vapours and carbon dioxide during the fire.

5.3 PERSONAL RECOMMENDATIONS FOR FIRE FIGHTING:

There is no special procedure for fire fighting.

SECTION 6: MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 PERSONAL PRECAUTIONS, EQUIPMENT PROTECTION AND EMERGENCY PROCEDURES:

Avoid contact with skin and eyes. Wear protection glasses (face shield or safety glasses).

Wear protective clothing and gloves resistant to chemicals (butyl rubber, nitrile and neoprene, polyethylene; polyvinyl chloride).

Consult the advice in section 8.

6.2 PRECAUTIONS RELATIVE TO THE ENVIRONMENT

Do not discharge waste into drains or watercourses. Dispose of waste according to local regulations. Throw away clothing and other absorbent materials that have been impregnated or strongly contaminated by the product, adequately according to local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANNING

Contain spillage, flush with large amount of water. Avoid large discharges; sorbents may be used. Create dams with sand or land to contain the spill.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

RECOMMENDATIONS OF GENERAL MEASURES OF HYGIENE AT WORK

Do not eat, drink nor smoke while using the product.

Wash hands with soap and water thoroughly after handling. For cleaning and maintenance of protective clothing, use detergent and hot water. Keep and wash protective clothing separately from other laundry.

Use in a well-ventilated area.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY POSSIBLE INCOMPATIBILITIES

Keep away from food and beverages, including those for animals.

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Store in a dry place. The storage temperature can be between -21°F / -6°C and +71°C / +160°F. The optimum storage temperature is between 50° F / 10° C and 119° F / 48° C.

Keep out of anionic materials.

In case of fire, do not breathe smoke.

7.3 FINAL(S) SPECIFIC(S) USE(S)

Unknown

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

PART A- SUBSTANCES: The data of this substances are not available: quaternary ammonium ion compounds, alkyl dimethyl benzyl chloride (50% C14, 40% C12, 10% C16) ammonium (CAS Number: 68424-85-1) and penthamethyltallowalkyl-1,3-propane diammonium dichloride (CAS Number: 68607-29-4).

TLV Limit in Air / TVL 8 hours: ppm not established - mg/m3 not established (Threshold Limit Value)

STEL: ppm not established - mg/m3 not established (Short-Term Exposure Limit)

PART B- SUBSTANCE: Hydrogen peroxide (CAS number: 7722-84-1)

TLV: 1ppm – 1.5 mg/m3 (Threshold Limit Value)

PART C- SUBSTANCES: Glycerol Diacetate (CAS Number: 25395-31-7)

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

2.2	FXP	OSL	IRF	CON	ITRO	15

Eye protection / face: Wear eye protection (face shield or safety glasses needs).

Skin protection: Use clothes for protection (long sleeve shirt, long pants, shoes

and socks)

Hand protection: Wear resistant gloves when using chemical products resistant

(butyl rubber, nitrile and neoprene, polyethylene, polyvinyl

chloride).

Respiratory protection: Respirator protection is not normally required.

Atmospheric levels should be maintained below the exposure

limits listed on the TLV by using engineering controls.

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA rated respiratory

protection must be provided.

During fogging, wear a respiratory protection (with approval TC-10C MSHA / NIOSH) or SCBA (with approval n. ° TC13-F

MSHA / NIOSH).

Local exhaust: Provide local exhaust, normal dilution ventilation is acceptable.

Refer to Industrial Ventilation by ACGIH for a manual of

recommended practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light yellowish clear liquid

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ODOR: Soap

COLOR: Light yellowish

EVAPORATION RATE: 1 (water= 1)

INFLAMMABILITY: Not flammable

VAPOR PRESSURE: Unknown

SOLUBILITY IN WATER: Complete

DENSITY: 1.06

CONCENTRATE pH: 9.8

BOILING POINT: 100 °C (212°F)

EXPLOSIVE PROPERTIES:No risk of explosion

OXIDIZING PROPERTIES: Non-oxidising

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY:

There is no known risk of reactivity.

10.2 CHEMICAL STABILITY:

The product is stable. No known hazardous reactions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

There is no risk of polymerization.

10.4 CONDITIONS TO AVOID:

Keep away from food and beverages, including those for animals.

Store in a dry place. The storage temperature can be between -21°F / -6°C and +71°C / +160°F. The optimum storage temperature is between 50° F / 10° C and 119° F / 48° C.

10.5 INCOMPATIBLE MATERIALS:

Anionic materials.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

In case of fire, thermal decomposition can release nitrogen oxides, ammonia vapor and carbon dioxide.

10.7 HAZARDOUS COMBUSTION PRODUCTS:

In case of fire, thermal decomposition can release nitrogen oxides, ammonia vapor and carbon dioxide.

SECTION 11: TOXICOLOGIC INFORMATION

11.1 INFORMATION ABOUT TOXICOLOGIC EFFECTS

Acute oral toxicity Harmful if swallowed. High likelihood of mucosal lesions.

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Acute inhalation toxicity Harmful if inhaled. Shortness of breath.

Skin Irritation May cause skin irritation.

Eye irritation May cause severe eye irritation

Carcinogenicity: This product is not listed in IARC Monographs, the NTP 6th

Annual Report on the current SCGIC TLV's as a carcinogen or

potential carcinogen.

IARC: Not classified as a human carcinogen. NTP: Not classified as a human carcinogen. OSHA: Not classified as a human carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY:

Information not available

12.2 PERSISTENCES AND DEGRADABILITY:

Information not available

12.3 POTENTIAL OF BIOACCUMULATION:

Information not available

12.4 MOBILITY IN FLOOR:

Information not available

12.5 RESULTS OF PBT AND VPVB:

Information not available

12.6 OTHER ADVERSE EFFECTS:

Information not available

12.7 OTHER INFORMATION:

Ecological data are not available.

Avoid product spills into drains, floor or watercourses.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 METHODS FOR WASTE TREATMENT

DISPOSAL OF WASTE PRODUCT. Do not discharge into drains or waterways. To not pollute the

ground, avoid release to the environment.

Immediately after emptying the contents, rinse three times or pressure rinse (or equivalent). The triple rinsing should be done as follows. Empty the remaining contents of container and drain for 10 seconds. Fill a quarter of the container with water container. Shake for 10 seconds. Pour into a water tank for later disposal wiped. Let drain for 10 seconds. Repeat two or more times. The elimination of waste is under the owner responsibility. Given the small rate of substance concentration the product is not considered dangerous. Dispose contents

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properly according to local regulations.

CONTAMINATED CONTAINER DISPOSAL Do not reuse or refill container. Save the container label.

Contaminated packaging can be eliminated as non hazardous waste under the full responsibility of the owner of the waste. Dispose of packaging properly with local, state, national and

federal environmental control regulations.

Nomenclature: 01 15 02 plastic packaging waste.

LOCAL PROVISIONS. Remove material or dispose in accordance with all applicable

federal, state, national and local regulations

SECTION 14: TRANSPORT INFORMATION.

OTHER RELEVANT INFORMATION: The product is not classified as hazardous for any mode of

transportation.

You do not need any special handling procedure.

The product is not regulated under DOT, ICAO/IATA and

VESSEL (IMO/IMDG) Regulations.

SECTION 15: REGULATORY INFORMATION.

15.1 REGULATION AND LEGISLATION IN SAFETY, HEALTH AND ENVIRONMENT SPECIFIC SUBSTANCE OR MIXTURE

Classification by: Directive 67/548/EC (Hazardous substances) and their adaptations.

Also taken into account Regulation (EC) n. ° 1272/2008, and their modifications (453/2010 Annex I).

UNITED STATES - SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Not hazardous

313 REPORTABLE INGREDIENTS: Section 313 of Title III of the Superfund Amendments and

Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal

Regulations, Part 372.

UNITED STATES - TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: Some ingredients are listed on the TSCA chemical substance

inventory.

Chemical Name	CAS#
Quaternary ammonium compounds,	68424-85-1
benzyl-C12-16-alkyldimethyl, chlorides	
Hydrogen Peroxide	7722-84-1
Glycerol Diacetate	246-941-2

UNITED STATES CERCLA

CERCLA RQ: 1,000 lbs

(COMPREHENSIVE ENVIRONMENTAL RESPONSE,

COMPENSATION, AND LIABILITY ACT)

15.2 CHEMICAL SAFETY ASSESSMENT

According to HMIS it is 0 (zero) for flammability and physical hazard, however under PPE it is classified with an 'H'

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which means safety goggle, gloves and apron is recommended for handling

SECTION 16: OTHER INFORMATION

COMPLETE LIST OF USES

Antibacterial

Virucide

Fungicide

Yeasticidal

Algaecide

Deodorizer Chemical decontaminant

Sporicidal

The product is designed specifically as a general decontaminant, cleaner and disinfectant for use in homes, hospitals, and commercial facilities. It is formulated to disinfect hard, non-porous, inanimate environmental surfaces such as floors, walls, metal surfaces, stainless steel, porcelain, glazed ceramic tile, plastic surfaces, bathrooms, shower stalls, bathtubs, hard nonporous cabinets, and walls of swimming pools. May be used in the kitchen on non-food contact surfaces. If used on food contact surfaces, rinse with potable water prior to food contact. In addition, this product deodorizes areas that are hard to keep fresh smelling including garbage cans, basements, restrooms and areas prone to odors caused by microorganisms.

Disinfection: Follow the pre-cleaning instructions above. To disinfect surfaces, apply the mixture and let DF200HF take effect on the moist surfaces for 10 minutes. No washing is necessary beforehand. The disinfectant activity affects MRSA Staphylococcus aureus, Staphylococcus, Salmonella enterica, Staphylococcus Epidermidis, Pseudomonas aeruginosa, Klebsiella Pneumoniae, Proteus mirabilis, Vancomycin-Resistant Enterococcus Faecalis, Enterobacter Aerogenes, Escherichia Coli (0157 H7), ESBL, and Listeria monocytogenes, and meets the requirements for hospital use.

Virucidal activity: Follow the pre-cleaning instructions above. To eliminate viruses on hard, non-porous surfaces, apply the mixture and let the product take effect on the moist surfaces for 10 minutes. This product is virucidal against Influenza type A (including H1N1), Influenza type B and Norovirus (feline calicivirus surrogate).

Fungicidal activity: Follow the pre-cleaning instructions above. DF200HF has been demonstrated to be fungicidal on mold and mildew. Apply a blended mixture of parts Part A, B and C as a spray onto a mold afflicted surface and allow to remain wet with product for 10 minutes. Also, this product controls mold and mildew on porous and hard non-porous surfaces. Reapply as necessary.

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Fungistatic activity: Follow the pre-cleaning instructions above. This product prevents the development of mold and mildew on porous and non-porous surfaces. Apply mixed solution of DF200HF on the surface to be treated until it is completely wet. Leave the surface wet for at least 10 minutes. Air dry.

Deodorizer & Air Freshener: DF200HF is an effective deodorant for locations infected by pet odors, food putrefaction odors, chemical odors, smells of smoke and all other odors. If you need to apply on textiles, test a small area, prior to spray DF200HF. Mix parts of DF200HF and apply to the surface and the air volume until odors are eliminated. Allow the product to act on wet surfaces for at least 10 minutes. Allow the product to air dry.

FULL TEXT OF RISK PHRASES

R20/22- Harmful by ingestion and inhalation

R36/38 - Causes serious eye irritation and skin irritation

This SDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by NEOSAN LABS Inc. to be dependable and is accurate to the best of the Company's knowledge. No guarantee of accuracy is made. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions and disposal considerations. The information relates to the specific materials designated herein and does not relate to the use in combination with any other material or other process. The listed hazard data herein may reflect the hazards related to the formulation as a whole or to individual components at 100% concentration. Therefore, certain warnings and hazard statements contained on this SDS may not be applicable to or included in the package labelling. SARA requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372. This Information must be included in all SDS's that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are: NONE FOLLOWING 453/2010/CE