



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

- Product name : NETTOYANT DK5
- Product code : ODIF-DK5.

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

- Detergent.

1.3. Details of the supplier of the safety data sheet

- Registered company name : ODIF.
- Address : 118, chemin du Sermoraz - BP 413.01704.BEYNOST Cedex.France.
- Telephone : +33 (0)4 78 55 07 43. Fax : +33 (0)4 72 25 84 63.
- Email: odif@odif.com
- <http://www.odif.com>

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

- Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

- Flammable aerosol, Category 1 (Flam. Aerosol 1, H222).

- Repeated exposure may cause skin dryness or cracking (EUH066).
- Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).
- This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

- Extremely flammable (F+, R 12).
- Repeated exposure may cause skin dryness or cracking (R 66).
- Vapours may cause drowsiness and dizziness (R 67).
- This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

- Detergent mixture (see section 15).
- Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

- Hazard pictograms :



GHS07 GHS02

- Signal Word :
- DANGER
- Hazard statements :

H222	Extremely flammable aerosol.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

- Precautionary statements - General :

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

- Precautionary statements - Prevention :

P211	Do not spray on an open flame or other ignition source.
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P251	Pressurized container: Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.

- Precautionary statements - Response :

P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

- Precautionary statements - Storage :

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

- Precautionary statements - Disposal :

P501	Dispose of contents/container at a disposal facility in accordance with local regulations.
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In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

- Hazard symbols :



Extremely flammable

- Risk phrase :

R 12	Extremely flammable.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.

- Safety phrase :

S 16	Keep away from sources of ignition - No smoking.
S 2	Keep out of the reach of children.
S 46	If swallowed, seek medical advice immediately and show this container or label.
Pressurized container: protect from sunlight and do not expose to	

temperatures exceeding 50°C.	
Do not pierce or burn, even after use.	
Do not spray on a naked flame or any incandescent material.	
S 29	Do not empty into drains.
S 51	Use only in well-ventilated areas.
S 23	Do not breathe spray.
S 24	Avoid contact with skin.

2.3. Other hazards

- No data available.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

- No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

3.2. Mixtures

Composition :

Identification	Name	Classification	%
EC: 919-857-5 REACH: 01-2119463258-3	HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	GHS07, GHS08, GHS02, Dgr Xn H:226-304-336 EUH:066 R: 10-65-66-67	50 <= x % < 100
INDEX: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	BUTANE	GHS02, GHS04, Dgr F+ H:220 R: 12	25 <= x % < 50
INDEX: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	PROPANE	GHS02, GHS04, Dgr F+ H:220 R: 12	2.5 <= x % < 10

SECTION 4 : FIRST AID MEASURES

- As a general rule, in case of doubt or if symptoms persist, always call a doctor.
- NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

- In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.
- If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.
- If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of splashes or contact with eyes :

- Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

In the event of splashes or contact with skin :

- Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
- Watch out for any remaining product between skin and clothing, watches, shoes, etc.
- If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

- In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
- Keep the person exposed at rest. Do not force vomiting.
- Seek medical attention, showing the label.
- If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

4.2. Most important symptoms and effects, both acute and delayed

- No data available.

4.3. Indication of any immediate medical attention and special treatment needed

- No data available.

SECTION 5 : FIREFIGHTING MEASURES

- Flammable.
- Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

- Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

- In the event of a fire, use :
 - - sprayed water or water mist
 - - water with AFFF (Aqueous Film Forming Foam) additive
 - - halon
 - - foam

- - multipurpose ABC powder
- - BC powder
- - carbon dioxide (CO₂)
- Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

- In the event of a fire, do not use :
- - water jet

5.2. Special hazards arising from the substance or mixture

- A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
- Do not breathe in smoke.
- In the event of a fire, the following may be formed :
- - carbon monoxide (CO)
- - carbon dioxide (CO₂)

5.3. Advice for firefighters

- Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Consult the safety measures listed under headings 7 and 8.

For non fire-fighters

- Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.
- Avoid inhaling the vapors.
- Avoid any contact with the skin and eyes.
- If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For fire-fighters

- Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

- Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
- Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

- Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

- No data available.

SECTION 7 : HANDLING AND STORAGE

- Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

- Always wash hands after handling.
- Remove and wash contaminated clothing before re-using.
- Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention :

- Handle in well-ventilated areas.
- Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.
- Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.
- Do not spray on a naked flame or any incandescent material.
- Do not pierce or burn, even after use.
- Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.
- Keep packages tightly closed and away from sources of heat, sparks and naked flames.
- Do not use tools which may produce sparks. Do not smoke.
- Prevent access by unauthorised personnel.

Recommended equipment and procedures :

- For personal protection, see section 8.
- Observe precautions stated on label and also industrial safety regulations.
- Do not breathe in aerosols.
- Avoid inhaling vapors.
- Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.
- Provide vapor extraction at the emission source and also general ventilation of the premises.
- Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.
- In all cases, recover emissions at source.
- Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

- No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

- No data available.

Storage

- Keep out of reach of children.
- Keep the container tightly closed in a dry, well-ventilated place
- Keep away from all sources of ignition - do not smoke.
- Keep well away from all sources of ignition, heat and direct sunlight
- The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.
- Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Packaging

- Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

- No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- - ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	1000 ppm	-	-	-	-
74-98-6	1000 ppm	-	-	-	-

- - Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS	VME :	VME :	Excess	Notes
106-97-8	1000 ml/m3	2400 mg/m3	4(II)	DFG
74-98-6	1000 ml/m3	1800 mg/m3	4(II)	DFG

- - Belgium (Order of 19/05/2009, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	800 ppm	-	-	-	-

- - France (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
106-97-8	800	1900	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	600 ppm	750 ppm	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	
Final use:	Workers.
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	300 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	1500 mg of substance/m3
Final use:	Consumers.
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	300 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	300 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	900 mg of substance/m3

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

- Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



- Use personal protective equipment that is clean and has been properly maintained.
- Store personal protective equipment in a clean place, away from the work area.
- Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

- Avoid contact with eyes.
- Use eye protectors designed to protect against liquid splashes
- Before handling, wear safety goggles in accordance with standard EN166.

- Hand protection

- Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
- Gloves must be selected according to the application and duration of use at the workstation.
- Protective gloves need to be selected according to their suitability for the workstation in question : other chemical gloves products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.
- Type of gloves recommended :
- - PVA (Polyvinyl alcohol)
- Recommended properties :
- - Impervious gloves in accordance with standard EN374

- Body protection

- Avoid skin contact.
- Wear suitable protective clothing.
- Suitable type of protective clothing :
- In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.
- In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.
- Work clothing worn by personnel shall be laundered regularly.
- After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

- Avoid breathing vapours.
- If the ventilation is insufficient, wear appropriate breathing apparatus.
- When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.
- Type of FFP mask :
- Wear a disposable half-mask aerosol filter in accordance with standard EN149.
- Category :
- - FFP1

- Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :
- - A1 (Brown)
- Particle filter according to standard EN143 :
- - P1 (White)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :	fluid liquid.
spray.	

Important health, safety and environmental information

pH :	Not relevant.
Flash point interval :	not relevant.
Vapour pressure :	Below 110 kPa (1.10 bar).
Density :	< 1
Water solubility :	Insoluble.
Chemical combustion heat :	not specified.
Inflammation time :	not specified.
Deflagration density :	not specified.
Inflammation distance :	not specified.
Flame height :	not specified.
Flame duration :	not specified.

9.2. Other information

- No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

- No data available.

10.2. Chemical stability

- This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

- When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

- Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.
- Avoid :
 - - heating
 - - heat

10.5. Incompatible materials

- Keep away from :
 - - oxidising agents

10.6. Hazardous decomposition products

- The thermal decomposition may release/form :
 - - carbon monoxide (CO)
 - - carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

- Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.
- Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.
- Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.
- Splashes in the eyes may cause irritation and reversible damage
- Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.
- Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

11.1.1. Substances

Acute toxicity :

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	
Oral route :	DL50 > 5000 mg/kg
	Species : Rat
	OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	DL50 > 5000 mg/kg
	Species : Rabbit
	OECD Guideline 402 (Acute Dermal Toxicity)
Inhalation route :	CL50 > 4951 mg/m ³

	Species : Rat
	OECD Guideline 403 (Acute Inhalation Toxicity)

11.1.2. Mixture

- No toxicological data available for the mixture.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

- Substances classified as category 1 chronic toxicity :

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	
Fish toxicity :	Duration of exposure : 96 h
	CL50 > 1000 mg/l
	Species : Oncorhynchus mykiss
Crustacean toxicity :	Duration of exposure : 48 h
	CE50 = 1000 mg/l
	Species : Daphnia magna
Algae toxicity :	Duration of exposure : 72 h
	CEr50 > 1000 mg/l
	Species : Pseudokirchnerella subcapitata

12.1.2. Mixtures

- No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

- No data available.

12.3. Bioaccumulative potential

- No data available.

12.4. Mobility in soil

- No data available.

12.5. Results of PBT and vPvB assessment

- No data available.

12.6. Other adverse effects

- No data available.

German regulations concerning the classification of hazards for water (WGK) :

- WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

- Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

- Do not pour into drains or waterways.

Waste :

- Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
- Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
- Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

- Empty container completely. Keep label(s) on container.
- Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

- Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011 - IMDG 2010 - ICAO/IATA 2012).

14.1. UN number

- 1950

14.2. UN proper shipping name

- UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

- - Classification :



- 2.1

14.4. Packing group

- -

14.5. Environmental hazards

- -

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
2	5F	-	2.1	-	1 L	190 327 344 625	E0	2	D	
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
2.1	SP63	-	SP277	F-D,S-U	63 190 277 327 959	E0				
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
2.1	-	-	203	75 kg	203	150 kg	A145 A167 A145 A167 A802	E0		
2.1	-	-	Y203	30 kg G	-	-	A145 A167 A802	E0		

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

- No data available.

SECTION 15 : REGULATORY INFORMATION

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

- Particular provisions :

- No data available.

- Labelling for detergents (EC Regulation No. 648/2004, 907/2006) :

- - 30 % and more : aromatic hydrocarbons
- - perfumes

- German regulations concerning the classification of hazards for water (WGK) :

- Germany : WGK 2 (VwVwS vom 27/07/2005, KBws)

15.2. Chemical safety assessment

- No data available.

SECTION 16 : OTHER INFORMATION

- Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.
- The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.
- It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
- The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Title for H, EUH and R indications mentioned in section 3 :

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
R 10	Flammable.
R 12	Extremely flammable.
R 65	Harmful: may cause lung damage if swallowed.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.

Abbreviations :

- DNEL : Derived No-Effect Level
- ADR : European agreement concerning the international carriage of dangerous goods by Road.
- IMDG : International Maritime Dangerous Goods.
- IATA : International Air Transport Association.
- ICAO : International Civil Aviation Organisation
- RID : Regulations concerning the International carriage of Dangerous goods by rail.
- WGK : Wassergefährdungsklasse (Water Hazard Class).
- GHS02 : Flame
- GHS07 : Exclamation mark