




MATERIAL SAFETY DATA SHEET

(in accordance with CE 1907/2006 – REACH)

1. Identification of the substance/preparation and of the company	
1.1 Product name:	4 ALL Spray
1.2 Relevant identified uses of the substance or mixture: Uses advises against:	lubricant in spray All except above indicated
1.3 Manufacturer/Supplier:	Nils S.p.A. Via Stazione, 30 39014 Postal (BZ) ITALY Tel. +39 0473 29 24 00 e-mail: nils@nils.it Fax: +39 0473 29 12 44 www.nils.eu Tel +39 0473 292400
Reference to safety data sheet:	schedasicurezza@nils.it
1.4 Emergency telephone number:	Nils S.p.A.: +39 0473 29 24 00 (only available during office hours) Centro Antiveleni Ospedale Niguarda Milano: +39 02 66101029
2. Hazards identification	
2.1 Class. Accord. to CE 1272/2008:	Aerosol: Aerosol 1 Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 2
2.2 Label elements CE 1272/2008: Pictograms:	Hazard statements: Extremely flammable aerosol. Pressurised container: May burst if heated. May cause drowsiness or dizziness Toxic to aquatic life with long-lasting effects    GHS02 GHS07 GHS09
Signal word:	Danger
Hazard statements H:	Contains: hydrocarbons, C7-C9, n-alkanes, isoalkanes, cycloalkanes H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H336 May cause drowsiness or dizziness H411 Toxic to aquatic life with long-lasting effects
Precautionary statements P :	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P261 Avoid breathing dust/fumes/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area P273 Avoid release to the environment. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P501 Dispose of contents/container to authorised waste disposal.

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2.3 Other hazards :	In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
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3. Composition/information on ingredients

3.1 Mixtures

Dangerous components:

Nr. EINECS	Nr. CAS	Nr. Reach	Description	%	Class. 1272/08
920-750-0	64742-49-0	01-2119473851-33	hydrocarbons, C7-C9, n-alkanes, isoalkanes, cycloalkanes	30-35	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411 EUH066
203-448-7	106-97-8		Butane	25-30	Flam. Gas 1, Liquefied gas; H220 H280
265-156-6	64742-53-6		Distillates (petroleum), hydrotreated light naphthenic	20-25	Asp. Tox.1; H304
200-827-9	74-98-6		Propane	12.5-15	Flam. Gas 1, Liquefied gas; H220 H280
232-366-4	8008-20-6		Kerosene first distillation, kerosene (petroleum)	2.5-5	Asp. Tox.1; H 304

Additional information:

Complete list H hazard statements is indicated in point 16 of this MSDS.

4. First aid measures

4.1 General information:	Take affected person out of danger area and lay down. Place a person into stable position, lying on one side, even in case of transport, in case of breath difficulties place the person with the trunk raised. Consult a doctor
- after inhalation:	Provide fresh air. In case of respiratory tract irritation, consult a physician (if possible show the label of this product)
- after skin contact:	Remove contaminated clothes, wash with plenty of water. Launder contaminated clothing before reuse.
- after eye contact:	Rinse opened eye for several minutes under running water, consult a doctor
- after swallowing:	Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.
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:	Symptomatic treatment

5. Fire fighting measures

5.1 Extinguishing media:	
Suitable extinguishing media:	Carbon dioxide (CO ₂), Foam, Extinguishing powder.
Unsuitable extinguishing media:	Water jet
5.2 Special hazards arising from the substance or mixture:	Flammable. Vapours can form explosive mixtures with air.
5.3 Advice for firefighters:	In case of fire: Wear self-contained breathing apparatus.
5.4 Additional information:	Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.



6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.
6.2 Environmental precautions:	Do not allow uncontrolled discharge of product into the environment. Danger of explosion.
6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.
6.4 Reference to other sections:	Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

7. Handling and storage

7.1 Precautions for safe handling:	Pressurized container: Do not pierce or burn, even after use. Use only in well-ventilated areas. Avoid breathing vapors or aerosols.
Information about protection against explosions and fires:	Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Vapours can form explosive mixtures with air.
7.2 Conditions for safe storage, including any incompatibilities:	Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not store together with: oxygen-rich material, oxidizing and combustible substances, pyrophoric or self-heating substances.
7.3 Specific end use(s):	Observe technical data sheet.

8. Exposure controls and personal protection

8.1	Control parameters: Exposure limits:	TWA (8h): Exposure limit values			
		CAS	Product	ppm	mg/m ³
		74-98-6	Propane	1000	1800
		106-97-8	Butane	800	1900
8.2	Exposure controls				
	-Personal protective equipment:	Use only in well-ventilated areas. Avoid breathing vapors or aerosols.			
	-General protective and hygiene measures:	Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary . When using do not eat or drink.			
	-Respiratory protection:	In case of inadequate ventilation wear respiratory protection. Suitable respiratory protection apparatus: Combination filtering device (EN 14387) A-P2			

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-Hand protection:	When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Suitable material: Butyl caoutchouc (butyl rubber) (0,5 mm) Breakthrough time (maximum wearing time): 4h. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
-Eye protection:	Wear eye/face protection. Suitable eye protection: goggles, Eye glasses with side protection
-Body protection:	Wear anti-static footwear and clothing

9. Physical and chemical properties

Form: Colour: Odour:	aerosol colorless characteristic		
	Value	Unit	Method
Boiling point/Boiling range:	<-20	°C	
Flash point:	<-20	°C	
Danger of explosion: lower limit:	0.7	% vol	
Danger of explosion: upper limit:	10.8	% vol	
Ignition temperature	>200	°C	
Oxidising properties:	Not oxidizing		
Density at 20°C:	0.673	g/cm ³	
Solubility in water:	insoluble		

10. Stability and reactivity

10.1 Reactivity:	Flammable, Ignition hazard
10.2 Chemical stability:	The product is stable under storage at normal ambient temperatures.
10.3 Possibility of hazardous reactions:	No known hazardous reactions.
10.4 Conditions to avoid	Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.
10.5 Incompatible materials	No information available.
10.6 Hazardous decomposition products	In case of fire may form toxic gasses/vapours.

11. Toxicological information

11.1 Information on toxicological effects:				
Acute toxicity:				
CAS	Product	LD50 oral, rat (mg/kg)	LD50 dermal, rabbit (mg/kg)	LC50 inhalative (4h) gas, rat
106-97-8	Butane	-	-	658 ppm
64742-49-0	hydrocarbons, C7-C9, n-alkanes, isoalkanes, cycloalkanes	>5000	>2800	>23.3 mg/l
64742-53-6	petroleum	>2000		

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Irritation and corrosivity:	Based on available data, the classification criteria are not met.						
Sensitising effects:	Based on available data, the classification criteria are not met.						
STOT-single exposure:	May cause drowsiness or dizziness. (hydrocarbons, C7-C9, n-alkanes, isoalkanes, cycloalkanes)						
This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].							
12. Ecological information							
12.1 Toxicity:	<div>hydrocarbons, C7-C9, n-alkanes, isoalkanes, cycloalkanes (CAS. 64742-49-0)</div> <div>LC50 (Oncorhynchus mykiss, 96h) >13.4 mg/l EC50r (Pseudokirchneriella subcapitata, 72h): 10-30 mg/l EC50 (Daphnia magna, 48h): 3 mg/l</div>						
12.2 Persistence and degradability:	The product has not been tested.						
12.3 Bioaccumulative potential:	Partition coefficient n-octanol/water						
<table><tr><td>CAS</td><td>Product</td><td>Log Pow</td></tr><tr><td>106-97-8</td><td>Butane</td><td>2.89</td></tr></table>		CAS	Product	Log Pow	106-97-8	Butane	2.89
CAS	Product	Log Pow					
106-97-8	Butane	2.89					
12.4 Mobility in soil:	The product has not been tested.						
12.5 Results of PBT and vPvB assessment:	The product has not been tested.						
12.6 Other adverse effects:	Do not allow product to reach ground water, water course or sewage system.						
13. Disposal considerations							
13.1 Waste treatment methods	Do not allow to enter into surface water or drains. Dispose of waste according to applicable local legislation.						
-Waste key:	16 05 04 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances Classified as hazardous waste.						
-Contaminated packaging:	Completely emptied and clean packages can be recycled. Handle contaminated packaging in the same way as the substance itself. Waste treatment in accordance with local official regulations.						



14. Transport information

Land transport (ADR/RID)	
14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Transport category:	2
Tunnel restriction code:	D
Other applicable information (land transport)	E0
Inland waterways transport (ADN)	
14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Other applicable information (inland waterways transport)	E0
Marine transport (IMDG)	
14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Hazard label:	2.1
Special Provisions:	63, 190, 277, 327, 344, 959
Limited quantity:	1000 ml
EmS:	F-D, S-U
Other applicable information (marine transport)	E0
Air transport (ICAO)	
14.1. UN number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS, flammable
14.3. Transport hazard class(es):	2.1
Hazard label:	2.1
Special Provisions:	A145 A167 A802
Limited quantity Passenger:	30 kg G
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg
Other applicable information (air transport)	Y203
14.5 Environmental hazards	ENVIRONMENTALLY HAZARDOUS: yes (Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cycloalkanes)
14.6 Special precautions for user	Warning: Flammable gases.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not applicable



15. Regulations

<p>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p>1999/13/CE (VOC):</p> <p>More information:</p> <p>Workplace exposure limits:</p> <p>Water hazard class (German reg.):</p>	<p>Reg. CE 1272/2008 (CLP) Reg. CE 790/2009 (1° ATP CLP) Reg. 1907/2006 (Reach) Reg. UE 453/2010</p> <p>76.459 % (514.569 g/l)</p> <p>To be observed: 850/2004/EC, 79/117/EEC, 689/2008/EC, 2008/47/EC</p> <p>Observe employment restrictions for young people. WGK 1 (slightly hazardous for water)</p>
<p>15.2 Chemical safety assessment</p>	<p>No data available for this product</p>

16. Other information

This MSDS was prepared in accordance to REACH 1907/2006/EC.

Relevant H hazard statements in point 3:

H hazard statements:

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 oxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Info MSDS: schedasicurezza@nils.it

Reviewed on: 09.03.2016