

Prepared according to Commission Regulation (EU) No 453/2010

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

- 1.1 Product identifier K&N Air Filter Oil Synonyms None
- **1.2 Relevant identified uses of the substance or mixture and (uses advised against)** Air filter oil

1.3 Details of the supplier of the safety data sheet

Rock Oil Company 90 Priestley Street Warrington Cheshire WA8 7UF Tel 00 (44) 1925 636191 Fax 00 (44) 1925 632499 e-mail: Sales @rockoil.co.uk

1.4 Emergency Telephone Number (during office hours)

00 (44) 1925 636191 (8.00-17.00 UTC)

Section 2 Hazards identification

2.1 Classification of the substance or mixture (EC) No 1272/2008

This product is classified as:



Flam Gas 1 GHS02 H222 Extremely flammable aerosol H229 Pressurised container: may burst if heated

Note: Product contains <0.1%w/w 1,3-butadiene (Einecs No 203-450-8) and is therefore not classed as a carcinogen or mutagen (Note K to Table 3.2 of Annex VI of CLP-Regulation (EC) No 1272/2008 For a full text of R- and H- phrases see Section 16

2.2 Label elements (EC) No 1272/2008 Signal word: Danger Pictograms:



Hazard Statements: H222 Extremely flammable aerosol H229 Pressurized container: may burst if heated.



Precautionary statements:

P102 Keep out of reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/container in accordance with local regulation.

67/548/EC or 1999/45/EC

Avoid contact with eyes. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

Supplemental label information

None

2.3 Other hazards

None

Section 3 Composition/information on ingredients

3.1 Mixtures

(EC) No 1272/2008 and 67/548/EC or 1999/45/EC

Ingredient	Conc.	CAS	EINECS	Symbols H Phrases	Symbols/ R Phrases
Butane 40	<50%	68476-85-7	270-704-2	Flam Gas 1 GHS02 H222 Extremely flammable aerosol H229 Pressurised container: may burst if heated	F+ R12
Highly- refined mineral oils	>50%	Mixture	-	Non-hazardous	Non- hazardous

Note: Product contains <0.1%w/w 1,3-butadiene (Einecs No 203-450-8) and is therefore not classed as a carcinogen or mutagen (Note K to Table 3.2 of Annex VI of CLP-Regulation (EC) No 1272/2008)

Section 4 First Aid measures

4.1 Description of first aid measures

Skin: May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Eyes: May cause irritation to eyes. Rinse immediately with plenty of lukewarm water for 15 minutes, holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Inhaled: May cause irritation to mucus membranes. Move the exposed person to fresh air.

Swallowed: May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

Advice for first aiders

When providing first aid always protect yourself against exposure to chemicals or blood borne diseases by wearing gloves, mask and eye protection as appropriate. After providing first aid wash your skin with soap and water.



4.2 Most important symptoms and effects, both acute and delayed

See section 11

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: Treat symptomatically

Section 5 Fire Fighting Measures

5.1 Extinguishing media

DO NOT USE WATER. Use CO2 or foam. Cool containers to prevent rupture.

5.2 Special Hazards arising from substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3 Advice for fire-fighters

Wear suitable respiratory equipment when necessary. A respirator fitted with an organic vapour cartridge combined with a particulate pre-filter should be considered. Half masks (EN 149) or valved half masks (EN 405) in combination with type A2 (EN 141) and P2/3 (EN 143) pre-filters maybe considered.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the workplace. If containers are ruptured extinguish all ignition sources. Ventilate area, particularly at low level.

6.2 Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Absorb with inert absorbent material. Sweep up and transfer to suitable labelled storage containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4 Reference to other sections

See sections 8 and 13 for additional information

Section 7 Handling and Storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing. Keep out of the reach of children.

7.2 Conditions for safe storage, including any incompatibles

Keep in a cool dry well-ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Keep away from sources of ignition. See section 10 for incompatible materials

7.3 Specific end use

See instructions enclosed with original pack for details of use.



Section 8 **Exposure Controls / Personal Protection**

8.1 Control parameters Substance: Oil mist TWA 1 mg/m3 STEL 3 mg/m3

8.2 Exposure controls

Use with adequate ventilation. Do not smoke during use.

Ose with adequate ventilation. Do not	Shoke during use.
Eye/face protection	Goggles conforming to a minimum standard of EN 166 345B should be
	considered if there is a possibility of eye contact with the product.
Skin protection	Chemical resistant gloves (PVC)
Respiratory protection	Use respirator with a combination organic vapour and high efficiency
	filter cartridge if recommended exposure limit is to be exceeded. Avoid
	breathing spray.
Hygiene measures	Wash thoroughly after handling this product.
Environmental exposure controls	See section 6 for details.

Section 9 **Physical and Chemical Properties**

9.1 Information on basic physical and chemi	cal properties
Appearance	Red liquid
Odour	Mild
Odour threshold	Not determined
pH	Not applicable
Melting/freezing Point	Not determined
Boiling Point (liquid phase)	>280°C
Boiling point range	Not applicable
Flash Point (liquid phase)	240°C
Evaporation rate	Not determined
Flammability (solid, gas)	Extremely flammable
Vapour pressure (liquid phase)	Expected to be less than 0.5 Pa at 20°C
Relative density (liquid phase)	0.875gm/ml (nominal)
Bulk density	Not applicable
Water solubility	Insoluble
Other solubilities	Not determined
Partition coefficient octanol/water	Log Pow expected to be greater than 6
Auto ignition point (liquid phase)	expected to be >320°C
Decomposition temperature	Not determined
Viscosity (liquid phase)	47.3 cSt
Explosive properties	Material does not have explosive properties
Oxidising properties	Material is a non-oxidising substance

9.2 Other information None

Section 10 **Stability and Reactivity**

10.1 Reactivity

Carefully review all information in sections 10.2-10.6



10.2 Chemical stability

Stable under normal conditions. Cans may rupture in a fire with the release of flammable propellant.

10.3 Possibility of hazardous reactions

Will not occur

10.4 Conditions to avoid

Heat, sparks, open flames or any other ignition source.

10.5 Incompatible materials

Strong acids, oxidising agents.

10.6 Hazardous decomposition products

Smoke and other products of thermal decomposition.

Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral	LD50 expected to be > 2000 mg/kg.
Dermal	LD50 expected to be > 2000 mg/kg.
Inhalation	Deliberate inhalation could prove fatal in extreme circumstances.

Skin corrosion/irritation

Not expected to be a primary skin irritant. Prolonged or repeated exposure from clothing wet with material may cause dermatitis. Symptoms may include redness, drying or cracking of skin.

Serious eye damage/irritation

May cause irritation to the eyes. Seek medical attention if irritation persists.

Respiratory irritation

If material is misted or heated causing vapours to be generated exposure may cause irritation of mucous membranes and upper respiratory tract.

Respiratory or skin sensitisation

Skin	Not expected to be a skin sensitizer
Respiratory	If mists are inhaled, slight irritation of the respiratory tract may occur.
Germ cell mutagenicity	No mutagenic effects reported
Carcinogenicity	No carcinogenic effects reported
Reproductive toxicity	No teratogenic effects reported.
STOT repeated exposure	No data available
Other information	Prolonged and/or repeated contact with products containing mineral oils n

Other information Prolonged and/or repeated contact with products containing mineral oils may result in defatting of the skin, particularly at elevated temperatures. This may lead to irritation and possibly dermatitis, especially under conditions of poor personal hygiene. Skin contact should be minimised. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed. Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.



Section 12 Ecological Information

12.1 Toxicity	
Freshwater fish	Product is expected to be practically non-toxic
Freshwater invertebrates	Product is expected to be practically non-toxic
Algae	Product is expected to be practically non-toxic
Bacteria	Product is expected to be practically non-toxic

12.2 Persistence and degradability

Not expected to be readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment

12.3 Bio-accumulative potential

Contains components with the potential to bio-accumulate

12.4 Mobility in soil

Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

12.5 Results of PBT and vPvT assessment

Not available

12.6 Other adverse effects

None known

Section 13 Disposal considerations

13.1. Waste treatment methods

Waste Disposal

Recycle or dispose of in accordance with prevailing regulations, by a recognised collector or contractor. The competence of the contractor to deal satisfactorily with this type of product should be established beforehand. Do not pollute the soil, water or environment with the waste product. Wastewater should not be discharged through the discharge to the sanitary sewer.

Product Disposal

As for waste disposal.

Container Disposal

Recycle or dispose of in accordance with the legislation in force with a recognised collector or contractor.

Section 14 Transport information

14.1 UN Number 1950

14.2 UN Proper Shipping Name Aerosols

14.3 Transport hazard class(es)



14.4 Packing Group

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14.5 Environmental hazards

Not regulated

14.6 Special precautions for users

Not regulated

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code Not applicable

Section 15 Regulatory information

15.1 Safety, health and environment regulations/legislation specific for the substance or mixture EU aerosol directive (75/324/EEC)

15.2 Chemical Safety Assessment No chemical safety assessment has been carried out.

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Section 16 Other Information

Labelling for contents	Extremely flammable
Created date	01/10/2011, version 1.0
Revision date	08/01/2016, version 1.2

Relevant R- phrases

R12 Extremely flammable

Relevant H- phrases

H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated.

Precautionary Statements:

P102 Keep out of reach of children.
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/container in accordance with local regulation.

The information supplied in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.



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MATERIAL SAFETY DATA SHEET

Prepared for: K&N Filters (Europe) Ltd. Unit 9 Ashville Way RUNCORN United Kingdom Phone: +44-1925-636950

K&N Engineering, Inc. PO Box 1329 Riverside, California 92502 United States Phone: +1 951 826 4000



Prepared according to Commission Regulation (EU) No 453/2010

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

1.5 Product identifier K&N Power Kleen[™] **Synonyms** Air Filter Cleaner

1.6 Relevant identified uses of the substance or mixture and (uses advised against) Air filter cleaner

1.7 Details of the supplier of the safety data sheet

K&N Rock Oil Company 90 Priestley Street Warrington Cheshire WA5 1ST Tel 00 (44) 1925 636191 Fax 00 (44) 1925 632499 e-mail: <u>martyn@rockoil.co.uk</u>

1.8 Emergency Telephone Number (during office hours)

00 (44) 1925 636191 (8.00-17.00 UTC)

Section 2 Hazards identification

2.1 Classification of the substance or mixture (EC) No 1272/2008

This product is classified as:



Serious eye Damage Cat.1: H318 Causes serious eye damage

For a full text of R- and H- phrases see Section 16

2.2 Label elements (EC) No 1272/2008 Hazard Pictogram



Signal word Danger

Hazard statement H318 Causes serious eye damage



Precautionary statements:

P280: Wear protective gloves/protective clothing/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.
P337 + P313: If eye irritation persists: Get medical advice/attention
P405: Store locked up.
P501: Dispose of contents/container in accordance with local regulation

Supplemental label information

Non-ionic surfactants 5 % or over but less than 15 %

2.3 Other hazards

Spillage may create a slip hazard.

Section 3 Composition/information on ingredients

3.1 Mixtures

(EC) No 1272/2008 and 67/548/EC or 1999/45/EC

Ingredient	Conc	CAS	EINECS	Symbols H Phrases	Symbols/ R Phrases
Water	80-90%				
Alcohol ethoxylate	1-10%	68439-46-3	614-482-0	Acute Tox.4 H302 Serious Eye Dam. 1 H318	Xn:R22 Xi:R41
PME (2- methoxymethylethoxy) propanol	1-10%	34590-94-8	252-104-2		
Antifoam	0-0.5%				
Dye	0-0.5%				
Ethanolamine (2- aminoethanol)	0-0.5%	141-43-5	205-483-3	Acute Tox. 4 H332 Acute Tox. 4 H312 Acute Tox. 4 H302 Skin Corr. 1B H314	Xn:R20/21/22 C:R34

NB Material contains 5 % or over but less than 15 % non-ionic surfactant.

Section 4 First Aid measures

4.1 Description of first aid measures

Skin: May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation or symptoms persist.

Eyes: May cause irritation to eyes. Rinse immediately with plenty of lukewarm water for 15 minutes, holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Inhaled: May cause irritation to mucus membranes. Move the exposed person to fresh air. If experiencing respiratory symptoms call a poison centre or doctor.

Swallowed: May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

Advice for first aiders: When providing first aid always protect yourself against exposure to chemicals or blood borne diseases by wearing gloves, mask and eye protection as appropriate. After providing first aid wash your skin with soap and water.



4.2 Most important symptoms and effects, both acute and delayed

See section 11

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: Treat symptomatically.

Section 5 Fire Fighting Measures

5.1 Extinguishing media

In case of fire: use CO2, dry chemical or foam for extinction. Use extinguishing media suitable to the surrounding fire conditions.

5.2 Special Hazards arising from substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3 Advice for fire fighters

Wear suitable respiratory equipment when necessary. A respirator fitted with an organic vapour cartridge combined with a particulate pre-filter should be considered. Half masks (EN 149) or valved half masks (EN 405) in combination with type A2 (EN 141) and P2/3 (EN 143) pre-filters maybe considered.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the workplace.

6.2 Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Absorb with inert absorbent material. Sweep up and transfer to suitable labelled storage containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4 Reference to other sections

See sections 8 and 13 for additional information.

Section 7 Handling and Storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2 Conditions for safe storage, including any incompatibles

Keep in a cool dry well-ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Keep away from sources of ignition. See section 10 for incompatible materials.

7.3 Specific end use

See instructions enclosed with original pack for details of use.



Section 8 Exposure Controls / Personal Protection

8.1 Control parameters		
PME	WEL 8-hr limit ppm: 50	WEL 8-hr limit mg/m ³ : 308
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m ³ : -
Ethanolamine	WEL 8-hr limit ppm: 1	WEL 8-hr limit mg/m ³ : 2.5
	WEL 15 min limit ppm: 3	WEL 15 min limit mg/m ³ : 7.6

8.2 Exposure controls Use with adequate ventilation. **Eye/face protection**

Skin protection Respiratory protection

Hygiene measures Environmental exposure controls Goggles conforming to a minimum standard of EN 166 345B should be considered if there is a possibility of eye contact with the product. Chemical resistant gloves (PVC). Use respirator with a combination organic vapour and high efficiency filter cartridge if recommended exposure limit is to be exceeded. Wash thoroughly after handling this product. See section 6 for details.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chem	ical properties
Appearance	Red liquid
Odour	Mild
Odour threshold	Not determined
рН	8.5 (nominal)
Melting/freezing Point	Not determined
Boiling Point	100°C
Boiling point range	Not applicable
Flash Point	Not applicable
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable
Lower flammability or explosion limit	Not applicable
Upper flammability or explosion limit	Not applicable
Vapour pressure	Not determined
Relative density	1.015gm/ml (nominal)
Bulk density	Not applicable
Water solubility	Total
Other solubilities	Not determined
Partition coefficient octanol/water	Not applicable
Auto ignition point	Not applicable
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Material does not have explosive properties
Oxidising properties	Material is a non-oxidising substance

9.2 Other information None



Section 10 Stability and Reactivity

10.1 Reactivity

Careful review all information in sections 10.2-10.6.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Will not occur.

10.4 Conditions to avoid Not determined.

10.5 Incompatible materials

Strong acids, oxidising agents. **10.6 Hazardous decomposition products** Smoke and other products of thermal decomposition.

Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Not classified

Alcohol ethoxylate (68439-46-3)

Oral:LD50 >2000 mg/kg (rat)Dermal:LD50 > 2000 mg/kg (rabbit)Inhalation:No data available

Skin corrosion/irritation

Not expected to be a primary skin irritant. Prolonged or repeated exposure from clothing wet with material may cause dermatitis. Symptoms may include redness, drying or cracking of skin.

Serious eye damage/irritation

May cause irritation to the eyes. Seek medical attention if irritation persists.

Respiratory irritation

If material is misted or heated causing vapours to be generated exposure may cause irritation of mucous membranes and upper respiratory tract.

Respiratory or skin sensitisat	tion
Skin	No data available
Respiratory	No data available
Germ cell mutagenicity	No mutagenic effects reported
Carcinogenicity	No carcinogenic effects reported
Reproductive toxicity	No teratogenic effects reported
STOT repeated exposure	No data available
Other information	Pre-existing skin conditions may be aggravated by prolonged or
	repeated exposure.



Section 12 Ecological Information

12.1 Toxicity
Freshwater fish
Freshwater invertebrates
Algae
Bacteria

No further data available No further data available No further data available No further data available

12.2 Persistence and degradability More than 90% biodegradable. Readily biodegradable.

12.3 Bio-accumulative potential Does not bio-accumulate

12.4 mobility in soil Expected to be completely mobile

12.5 results of PBT and vPvT assessment Not available

12.6 other adverse effects None known

Section 13 Disposal considerations

13.1 Waste treatment methods

Dispose of in compliance with local and national regulations.

Section 14 Transport information

14.1 UN Number Not regulated

14.2 UN Proper Shipping Name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing GroupNot regulated14.5 Environmental hazardsNot regulated

14.6 Special precautions for users

Not regulated 14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code Not applicable



Section 15 Regulatory information

15.1 Safety, health and environment regulations/legislation specific for the substance or mixture Regulation (EC) No 648/2004

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

Section 16 Other Information

Labelling for contents Non-ionic surfactants 5 % or over but less than 15 %

Creation date	01/10/2011, version 1.0
Revision date	08/01/2016, version 1.2

R phrases:

R22	Harmful if swallowed
R41	Risk of serious damage to eyes

H phrases:

H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes server skin burns and eye damage
H318	Causes Serious Eye Damage
H332	Harmful if inhaled

Precautionary statements:

P280: Wear protective gloves/protective clothing/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.
P337 + P313: If eye irritation persists: Get medical advice/attention
P405: Store locked up.
P501: Dispose of contents/container in accordance with local regulation

The information supplied in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Prepared for: K&N Filters (Europe) Ltd. Unit 9 Ashville Way RUNCORN United Kingdom Tel: +44-925-636950

K&N Engineering, Inc.



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MATERIAL SAFETY DATA SHEET

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