

# Safety Data Sheet - Brake Cleaner Solvent NOAC

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name:	FORTRON BRAKE CLEANER SOLVENT NOAC
Product Code:	FBC5 - FBC20

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

### 1.3 Details of the supplier of the safety data sheet

Manufacturer:	Fortron International
Address:	Unit 4 Cannel Road, Burntwood Business Park, Burntwood, Staffordshire, WS7 3FU
Country:	United Kingdom
Telephone:	01543 679 900
Fax:	01543 679 901

### 1.4 Emergency telephone number





01543 679 900 (office hours only)
-----------------------------------

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification under CLP:	Asp. Tox. 1: H304; Aquatic Chronic 2: H411; Flam. Liq. 2: H225; Skin Irrit. 2: H315; STOT SE 3: H336
Most important adverse effects:	Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

Hazard statements:	H225: Highly flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long lasting effects.
Hazard Pictograms:	    <p>GHS02 Flame</p> <p>GHS08: Health hazard</p> <p>GHS07 Exclamation Mark</p> <p>GHS09: Environmental</p>

# Safety Data Sheet - Brake Cleaner Solvent NOAC

Revision 1  
 Dated: 19th December 2018  
 Doc no: F1SDS067  
 Page 2 of 8

Signal Words:	Danger
Precautionary statements:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor/first aid. P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P331: Do NOT induce vomiting. P403+233: Store in a well-ventilated place. Keep container tightly closed.

## 2.3 Other Hazards

PBT: This product is not identified as a PBT/vPvB substance.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures:

Hazardous Ingredients:

#### HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
921-024-6	-	-	Flam. Liq. 2: H225; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; STOT SE 3: H336; Asp. Tox. 1: H304	>70%

REACH REGISTERED NUMBER(S): **01-2119475514-35**

#### ETHANOL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-578-6	64-17-5	Substance with a Community workplace exposure limit.	Flam. Liq. 2: H225	10 - 30%

REACH REGISTERED NUMBER(S): **01-2119457610-43**

#### N-HEXANE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-777-6	110-54-3	-	Flam. Liq. 2: H225; Repr. 2: H361f; Asp. Tox. 1: H304; STOT RE 2: H373; Skin Irrit. 2: H315; STOT SE 3: H336; Aquatic Chronic 2: H411	<1%

## 4. FIRST AID MEASURES

4.1 Description of first aid measures	
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Do not induce vomiting. If unconscious and breathing is OK, place in the recovery position. Consult a doctor.
Inhalation:	Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed	
Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting and diarrhoea. The casualty may appear intoxicated.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Drowsiness or mental confusion may occur. There may be loss of consciousness.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed	
Immediate / special treatment:	Eye bathing equipment should be available on the premises.

## 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media	
Extinguishing media:	Water spray. Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture	
Exposure hazards:	Highly flammable. May form flammable / explosive dust-air mixture. In combustion emits toxic fumes.

5.3 Advice for fire-fighters	
Protective equipment:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	
Personal precautions:	Refer to section 8 of SDS for personal protection details. If outside keep bystanders upwind and away from danger point. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions	
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.

# Safety Data Sheet - Brake Cleaner Solvent NOAC

Revision 1  
Dated: 19th December 2018  
Doc no: F1SDS067  
Page 4 of 8

## 6.3 Methods and material for containment and cleaning up

Clean-up procedures:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.
----------------------	--

## 6.4 Reference to other sections

Reference to other sections	Refer to section 8 of SDS.
-----------------------------	----------------------------

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Handling requirements	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
-----------------------	---

### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed.
---------------------	---

### 7.3 Specific end use(s)

No data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Hazardous ingredients:

**HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE**

#### Workplace exposure limits:

#### Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1200ppm	-	-	-

#### ETHANOL

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1920 mg/m <sup>3</sup>	-	-	-

#### N-HEXANE

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	72 mg/m <sup>3</sup>	-	-	-

#### DNEL/PNEC Values

DNEL / PNEC	No data available.
-------------	--------------------

### 8.2 Exposure controls

Engineering measures	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
Respiratory protection	Self-contained breathing apparatus must be available in case of emergency.
Hand protection	Gloves (solvent-resistant).
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
State:	Liquid
Colour:	Colourless
Odour:	Characteristic odour
Evaporation rate:	Fast
Oxidising:	Not applicable.
Solubility in water:	Slightly soluble
Viscosity:	Non-viscous
Kinematic Viscosity:	<7.0
Viscosity test method:	Kinematic viscosity in 10 <sup>-6</sup> m <sup>2</sup> /s at 40°C (ISO 3104/3105)
Boiling point/range°C:	60-100
Melting point/range°C:	No data available.
Flammability limits %: lower:	0.9
upper:	8.0
Flash point°C:	<5
Autoflammability°C:	>200
Relative density:	0.710 typical
VOC g/l:	No data available.
Part.coeff. n-octanol/water:	No data available.
Vapour pressure:	No data available.
pH:	Not applicable.

### 9.2. Other information

Other information:	No data available.
--------------------	--------------------

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Reactivity	Stable under recommended transport or storage conditions.
------------	---

### 10.2 Chemical stability

Chemical stability:	Stable under normal conditions.
---------------------	---------------------------------

### 10.3 Possibility of hazardous reaction

Hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
---------------------	---

### 10.4 Conditions to avoid

Conditions to avoid	Direct sunlight. Heat. Hot surfaces. Sources of ignition. Flames.
---------------------	---

### 10.5 Incompatible materials

Materials to avoid	Strong oxidising agents. Strong acids.
--------------------	--

## 10.6 Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Hazardous ingredients:

#### HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE

DERMAL	RAT	LD50	>2920	mg/kg
ORAL	RAT	LD50	>5840	mg/kg
VAPOURS	RAT	4H LC50	>25200	mg/kg

#### ETHANOL

DERMAL	RBT	LD50	>2000	mg/kg
ORL	MUS	1H LC50	>20	mg/kg
ORL	RAT	LD50	>2000	mg/kg

#### N-HEXANE

IPR	RAT	LDLO	9100	mg/kg
IVN	MUS	LDLO	831	mg/kg
ORL	RAT	LD50	25	gm/kg

#### Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

#### Symptoms / routes of exposure

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting and diarrhoea. The casualty may appear intoxicated.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Drowsiness or mental confusion may occur. There may be loss of consciousness.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Hazardous ingredients:

#### HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE

Daphnia magna	48H EC50	3	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	11.4	mg/l

#### ETHANOL

ALGAE	48H EC50	>100	mg/l
Daphnia magna	48H EC50	>100	mg/l
FISH	96H LC50	>100	mg/l

## 12.2 Persistence and degradability

Persistence and degradability:	Biodegradable.
--------------------------------	----------------

## 12.3 Bioaccumulative potential

Bioaccumulative potential	No data available.
---------------------------	--------------------

## 12.4 Mobility in soil

Mobility	Highly volatile. Floats on water.
----------	-----------------------------------

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB identification:	This product is not identified as a PBT/vPvB substance.
--------------------------	---

## 12.6 Other adverse effects

Other adverse effects:	Toxic to aquatic organisms.
------------------------	-----------------------------

# 13. DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment Methods

Disposal operations recommendation:	Transfer to a suitable container and arrange for collection by specialised disposal company.
-------------------------------------	--

NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.
-----	---

# 14. TRANSPORT INFORMATION

## 14.1 UN number

UN number:	UN1993.
------------	---------

## 14.2. UN proper shipping name

Shipping name:	FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% NHEXANE; ETHANOL)
----------------	---

## 14.3. Transport hazard class(es)

Transport class:	3
------------------	---

## 14.4. Packing group

Packing group:	II
----------------	----

## 14.5. Environmental hazards

Environmentally hazardous:	Yes
----------------------------	-----

## 14.6. Special precautions for user

Special precautions:	No special precautions. Limited Quantity - 1 Litre/Kilo
----------------------	---

Tunnel code:	D/E
--------------	-----

Transport category:	2
---------------------	---

## 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
Specific regulations:	Not applicable.

## 15.2 Chemical safety assessment

## 16. OTHER INFORMATION

Other information	
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
Phrases used in s.2 and s.3:	H225: Highly flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H336: May cause drowsiness or dizziness. H361f: Suspected of damaging fertility. H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. H411: Toxic to aquatic life with long lasting effects.
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.