

# 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 4Fu
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>

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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.

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:	
<b>HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, &lt;5% N-HEXANE</b>	

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/m3	-	-	-

N-HEXANE				
State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	72 mg/m3	-	-	-

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.

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## 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

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## 12.2 Persistence and degradability

Persistence and degradability:	Biodegradable.
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## 12.3 Bioaccumulative potential

Bioaccumulative potential	No data available.
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## 12.4 Mobility in soil

Mobility	Highly volatile. Floats on water.
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## 12.5 Results of PBT and vPvB assessment

PBT/vPvB identification:	This product is not identified as a PBT/vPvB substance.
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## 12.6 Other adverse effects

Other adverse effects:	Toxic to aquatic organisms.
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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment Methods

Disposal operations recommendation:	Transfer to a suitable container and arrange for collection by specialised disposal company.
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NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.
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## 14. TRANSPORT INFORMATION

### 14.1 UN number

UN number:	UN1993.
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### 14.2. UN proper shipping name

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

Transport class:	3
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### 14.4. Packing group

Packing group:	II
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### 14.5. Environmental hazards

Environmentally hazardous:	Yes
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### 14.6. Special precautions for user

Special precautions:	No special precautions. Limited Quantity - 1 Litre/Kilo
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Tunnel code:	D/E
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Transport category:	2
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## 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.