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SAFETY DATA SHEET

According to EC Regulations 1907/2006 & 1272/2008

NTL SDS 1002A-1.0

August 2016

BRAKE & CLUTCH CLEANER AEROSOL

SECTION 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY / UNDERTAKING

1.1	**Product Name**:	Brake & Clutch Cleaner Aerosol
1.2	**Identified uses**:	Cleaner
1.3	**Details of supplier of sds**:	New Tech Lubes Ltd, Unit 3 Harrison Drive Ind Est, Worksop Notts, S81 9RL
	E Mail (competent person)	info@newtechlubes.com
1.4	**Emergency Telephone**:	+44 (0)1909 730900 (09.00 -17.00 GMT Monday to Friday)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance /mixture:

2.1.1 Regulation EC 1272/2008:

Aerosol (cat 1)	(Extremely flammable)	- H222
Health	EUH066, STOT-SE (cat 3) -	H336,
	Skin / Eye irritant (cat 2)	– H315, 319
Environmental	Aquatic chronic (cat 2)	- H411

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2.2 **Label elements:**

Contains: Paraffinic hydrocarbons

Signal word(s): Danger

Hazard statements:

H222	Extremely flammable aerosol
H229	Pressurised container: may burst if heated
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
EUOH66	Repeated exposure may cause skin dryness or cracking
H411	Toxic to aquatic life with long-lasting effects

Precautionary statements:

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P211	Do not spray on an open flame or other ignition source
P243	Take precautionary measures against static discharge
P251	Pressurised container – do not pierce or burn even after use.
P261	Avoid breathing fumes/ vapours
P271	Use only outdoors or in well-ventilated area
P280	Wear protective gloves/ protective clothing/ eye protection
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50^0C

2.3 Other hazards

The mixture does not contain any vPvB or PBT substances.

Danger of bursting (explosion) when heated over 50^0C

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixture:

HAZARDOUS INGREDIENTS	%W/W	CAS N_O EC N_O	REACH REG NO	HAZARD PICT/STATEMENTS
Hydrocarbon aerosol propellant (<0.1 butadiene)	25-50	68476-85-7 270-704-2	N/A	Flam gas1, H220
Hydrocarbons C7 n-alkanes, isoalkanes, cyclics	25-50	64742-49-0 927-510-4	01-2119475515-33	Flam liq 2 H225 Skin irritant 2 H315 Asp tox 1 H304

				STOT SE3 H336 Aquat chronic 2 H411
Ethanol	10-25	64-17-5 200-578-6		Flam liq 2 H225 Eye irritant 2 H319
Hydrocarbons C6-C7, Isoalkanes (<5% n-hexane)	5-10	- 926-605-8	01-2119486291-36	Flam liq 2 H225 Asp tox 1 H304 STOT SE3 H336 Aq chronic 2 H411 EUH066
Acetone	5-10	67-64-1 200-662-2	01-2119471330-49	Flam liq 2, H225 Eye irritant 2, H319 STOT SE3, H336 EUHO66
Methanol	<1	67-56-1 200-659-6		Flam liq 2 H225 Acute tox 3 H301/311/331
Carbon dioxide	<5	124-38-9 204-696-9	N/A	(EU exposure limits apply)

3.3 Additional information

See sect 16 for full text of H phrases.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

Eyes: Remove contact lenses. Rinse with water immediately for at least 10 minutes. Obtain medical attention if any discomfort occurs.

Skin: Remove severely contaminated clothing. Wash with soap and water. Obtain medical attention if any discomfort occurs.

Inhalation: Move to fresh air. Provide rest and warmth. If effects occur, obtain medical attention.

Ingestion: If swallowed, drink plenty of water. **Do not induce vomiting**. Obtain immediate medical attention.

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

The following symptoms may be apparent depending upon the routes of absorption as detailed in 4.1 above; eye irritation, headache, nausea, dizziness, respiratory tract irritation..

Resultant acute /long-term effect to the CNS, dermatitis, vomiting, diarrhoea and are further detailed in sect 11

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

Excessive exposure may aggravate pre-existing asthma and other respiratory disorders.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Powder, alcohol resistant foam. CO_2, dry chemicals.

Unsuitable extinguishing media: Water stream

5.2 Special hazards arising from the substance or mixture

May produce **o**xides of Carbon and other combustion products. Danger of explosion when heated.

Contents will add to fuelling of fire. Solvent vapours may form explosive mixtures with air.

5.3 Advice for fire-fighters

Wear SCBA. Keep containers cool by spraying with water. Ventilate closed spaces before entering.

SECTION 6. ACCIDENTAL RELEASE MEASURES:

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible sources of ignition. Avoid breathing fumes/ vapours. Ensure sufficient ventilation. Wear suitable protective equipment as in Sect 8.

6.2 Environmental precautions.

Prevent from entering drainage systems or water courses.

6.3 Methods and material for containment and clearing

If spray or gas escapes, ensure plenty of fresh air / ventilation. Absorb spilled contents on inert material such as sand or earth - collect and dispose of as in Sect 13. Scrub area with detergent and water to prevent slippery residues.

6.4 Reference to other sections

For PPE and disposal see sections 8 and 13 respectively.

SECTION 7. HANDLING AND STORAGE:

7.1 Precautions for safe handling

Keep away from all sources of ignition. Wear protective gloves/ eye protection. Do not use on hot surfaces .Wash hands after use and before eating. Do not breathe vapours / fumes.

7.2 Conditions for safe storage, including any incompatibilities

Store tightly closed, in a cool, dry, ventilated area. Keep protected from direct sunlight and temperatures above 50^0C.

7.3 Specific end use (s)

For general solvent cleaner applications in general industrial and automotive use.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Workplace exposure limits

Ingredients	LTEL 8 Hr	STEL 15 min	Note
Hydrocarbons C7 n-alkanes	500 ppm	-	EH40
Ethanol	1000ppm	-	WEL
Methanol	200mg/m^3 (skin)	250mg/m^3 (skin)	WEL
Hydrocarbons C6-C7	350 mg/m^3	1050 mg/m^3	EH40
Acetone	500 ppm	1500 ppm	WEL
Hydrocarbon aerosol propellant (<0.1 butadiene)	1000 ppm	1250 ppm	EH40

Biological limit value - Not established

PNECs, DNELs - Not established

8.2 Exposure controls

8.2.1 Appropriate engineering controls - Ensure good ventilation /local exhaust ventilation to keep airborne contaminants below exposure limits.

8.2.2 Personal protective equipment:

Eye / face protection - Safety goggles/glasses if there is a risk of eye contact.

Skin protection – Nitrile gloves (EN 374). See glove manufacturer data for glove selection and breakthrough time for use conditions.

Respiratory protection – If engineering controls do not maintain safe level, then filter/respirator. Type A filter material.

8.2.3 Environmental exposure controls – See sects 6,12, 13.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance/physical state: Aerosol

Colour: Clear, colourless –pale straw

Odour:	Strong solvent
Odour threshold:	Not established
pH:	Not applicable
Melting /freezing point:	< 0^0C
IBP /boiling range:	< 0^0C
Flash Point	< 0^0C
Evaporation rate:	Not established
Upper /lower explosive limits:	1.8 – 9.4% by volume
Vapour pressure:	Approx 5 bar at 20^0C
Vapour density:	Not established
Relative density:	Not applicable
Solubility:	Negligible water miscibility
Partition coefficient (n-octanol/water):	Not established
Auto-ignition temperature:	Not established
Decomposition temperature:	Not established
Viscosity:	Not applicable
Explosive properties:	Not established
Oxidising properties:	None

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known under normal conditions of use.

10.2 Chemical Stability

Stable under proper storage and handling conditions.

10.3 Possibility of chemical reactions

No dangerous reactions known.

10.4 Conditions to avoid

Heat, flame and other ignition sources .Pressurised container: Protect from sunlight and do not Expose to temperatures exceeding 50^0C. Do not pierce or burn even after use.

10.5 Incompatible materials

Avoid contact with strong oxidising agents

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10.6 Hazardous decomposition products

None when used as directed**.**

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2. Mixtures

Acute toxicity
Irritation
Corrosivity
Sensitisation
Repeated dose toxicity
Carcinogenicity
Mutagenicity
Toxicity for reproduction

} No data available

Other information

May cause irritation and discomfort to eyes. Prolonged or repeated contact may cause irritation and dermatitis. High concentrations of vapours may cause drowsiness and dizziness

Ingestion may cause irritation to mouth and cause damage to respiratory system.

Hydrocarbons, C7 n-alkanes					
Toxicity / Effect	**Endpoint**	**Value**	**Organism**	**Method**	**Notes**
Acute Tox -Oral	LD50	>5000 mg/kg	Rat	OECD 401	Potential lung damage
Acute tox-Inhal	LC50	>23.3 mg/l	Rat -4hours	OECD 403	Throat irritation. CNS effect
Acute Tox- Derm	LD50	>2900 mg/kg	Rat	OECD 402	
Skin corrosion / Irritation					Irritant to skin & mucous membranes
Serious eye damage / Irritation					May cause serious eye damage
Sensitisation – Respiratory or Skin					No known sensitiser effect.
CMR effects					Not classified

Ethanol					
Toxicity/ Effect	**Endpoint**	**Value**	**Organism**	**Method**	**Notes**
Acute Tox -Oral	LD50	>2000mg/kg	Rat		
Acute Tox-Derm	LD50	>2000mg/kg	Rabbit		
Acute Tox-Inhal	LC50	>20mg/L	Mouse		Vapours
Serious eye damage /			Rabbit		Slightly irritating

Irritation					
Sensitisation – Respiratory or Skin			Guinea pig		Not sensitising
Carcinogenicity					Not a carcinogen

Hydrocarbons C6 –C7 (<5% n Hexane)					
Toxicity / Effect	**Endpoint**	**Value**	**Organism**	**Method**	**Notes**
Acute tox -oral	LD 50	>5000mg/kg	Rat		Literature. Minimally toxic
Acute tox -inhal	LC50	>20mg/l	Rat	4Hr	(vapour). Minimally toxic
Acute tox -derm	LD50	>2000mg/kg	Rabbit		Minimally toxic
Aspiration					May be fatal if swallowed and enters airways
Skin irritation					Irritant effect
Eye irritation					Irritant effect
Sensitisation					Not expected to be a respiratory sensitiser
STOT - repeated exposure					May cause skin irritation and/or dermatitis
Mutagenicity					Not expected to be mutagenic
Carcinogenicity /teratogenicity /reproductive tox					Not expected to cause cancer or repro tox

Acetone					
Toxicity/Effect	**Endpoint**	**Value**	**Organism**	**Method**	**Notes**
Acute Tox -Oral	LD50	1700mg/kg	Rat		
Acute Tox- Inhl	LC50	>6700mg/l	Rat -4hr		
Acute Tox-Derm	LD50	>15800mg/kg	Rabbit		
Carcinogenic					No components of this material at >0.1% identified as having such effects
Mutagenic					
Reproductive					
Teratogenic					

Hydrocarbon aerosol propellant (<0.1% Butadiene)
General
In low concentrations may cause narcotic effects. Symptoms include dizziness, headache, nausea and

loss of co-ordination.

SECTION 12 ECOLOGICAL INFORMATION:

Mixture

12.1 Toxicity - Toxic to aquatic life with long-lasting effects

12.2 Persistence and degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil
12.4 results of PBT and vPvB assessment
12.6 Other adverse effects.

No data available

Ethanol

12.1 Toxicity.

Test	Duration	Organism	Method	Result	Notes
Toxicity to fish	48 hrs	Leucisus idus	LC50	>100mg/l	
Toxicity to daphnia /other aq invertibrates	48 hrs	Daphnia magna	EC50	>100mg/l	
Toxicity to algae	48 hrs	Selenastrum capricornutum	EC 50	>100mg/l	

12.2 Persistence, Degradability and Bioaccumulation Potential. – Biodegradable. Oxidises rapidly by photochemical reactions in air.Integrated experimental half-life expected to be 1-10 days. Dominant loss process – biodegradation.

12.3 Bioaccumulative potential – Does not bioaccumulate significantly

12.4 Mobility in soil - Evaporates readily from all surfaces. Water soluble and may spread in water systems

12.5 Results of PBT and vPvB assessment - Contains no PBT or vPvB components

12.6 Other adverse effects - No data available

Hydrocarbons C6-C7

12.1 Toxicity – May cause long term effects in the aquatic environment.

Test	Duration	Organism	Method	Result	Notes
Aquatic - acute	96 hrs	Oncorhynchus mykiss	LL50	12mg/l	
Aquatic - acute	48 hrs	Daphnia magna	EL50	3mg/l	
Aquatic -acute	72 hrs	Algae	NOEC	30mg/l	
Aquatic -acute	72 hrs	Algae	EC50	55mg/l	

12.2 Persistence and degradability

Atmospheric - Readily biodegradable 98% - 28 days (water media) .Degrades rapidly to air

Photo degradation – No significant photolysis

Stability in water - . No -significant hydrolysis

12.3 Bioaccumulative potential – Not determined.

12.4 Mobility in soil – Because of its high volatility, is unlikely to cause ground or water pollution.

12.5 Results of PBT and vPvB assessment – Contains no PBT or vPvB components

12.6 Other adverse effects – None determined

Acetone

12.1 Toxicity – Not classified as harmful to aquatic organisms.

Test	Duration	Organism	Method	Result	Notes
Aquatic -acute	-	Daphnia	EC50	>10000mg/l	
Aquatic -acute	96 hrs	Fish	LC50	>5500mg/l	

12.2 Persistence and degradability – Material is readily biodegradable. Will volatise to air because of its high vapour pressure.

12.3 Bioaccumulative potential – Not expected to bioaccumulate..

12.4 Mobility in soil – Highly volatile, will rapidly partition to air. May move with surface or groundwater as is fully water soluble. Poorly absorbed into soils or sediments.

12.5 Results of PBT and vPvB assessment – Contains no PBT or vPvB components

12.6 Other adverse effects – None determined.

Hydrocarbon aerosol propellant (<0.1% Butadiene)

General
No known ecological damage.

SECTION 13 DISPOSAL CONSIDERATIONS:

13.1 Waste Treatment Methods

Empty containers must not be burnt or incinerated because of explosion hazard. Dispose of in accordance with local authority guidelines. Empty aerosol products may be recyclable via local authority.

SECTION 14. TRANSPORT INFORMATION:

14.1 UN number 1950

14.2 UN proper shipping name Aerosols

14.3 Transport hazard class 2 (UN / IMDG).

ADR Classification code 5F

14.4 Packing group None

14.5 Environmental hazards Not applicable

SECTION 15. REGULATORY INFORMATION:

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

REACH: 1907/2006

CLP: 1272/2008

DPD: 199/45/EC

COSHH: 2002 (as amended)

15.2 Chemical safety assessment

A CSA has not been carried out for this mixture.

SECTION 16. OTHER INFORMATION:

Legend

LTEL	Long term exposure limit
STEL (SE)	Short term exposure limit (Single exposure)
STOT	Specific target organ toxicity
PNEC	Predicted no effect concentration
DNEL	Derived no effect level

Hazard statements –referred to in sect 3

H220	Extremely flammable gas
H225	Highly flammable liquid and vapour
H301/311/331	Toxic if swallowed, in contact with skin and if inhaled

Classification methods used to derive classification of mixture

Classification according to calculation procedure detailed in EC1272/2008

Additional information

This safety data sheet has been produced based on information supplied by the manufacturers of the materials therein and is believed to be accurate. No warranty is expressed or implied by this information. It is for the user to satisfy themselves of the suitability of the product for their own purposes.