TRULOC Technical Data Sheet

Superloc 395 Dated: 25.07.2000

Truloc Ltd.
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Product Description

Superloc 395 is formulated for low strength threadlocking and easy dismantling of parts. It prevents set screws, lock screws and machine screws from loosening under vibration while providing easy adjustment and dismantling. Its thixotropic property minimises adhesive flow and transfer thus preventing migration into working assemblies. Superloc 395 provides excellent lubrication and controlled torque/tension relationship.

Typical Applications

Superloc 395 for fasteners made from weak metals, which could possibly break during dismantling. It is suitable for all low stress assemblies when dismantling is by screwdriver or allen key.

Product Benefits

Low strength for easy dismantling.
Excellent resistance against solvents and gases.
Locks assembled fasteners against vibration.
Excellent thixotropic nature, preventing migration.
Eliminates re-work where leaks are found in inspection.

This product is excellent on all moving parts and delivers a positive seal that is resistant to lubricants and most solvents. Its low strength allows dismantling of joints to be carried out in the normal way using conventional tools.

Performance Properties of Cured Truloc Superloc 395

Strength (steel parts)M24	Locking torque Nm ISO10964
Breakaway	4-8
Prevailing	2-4
Shear strength DIN 54452	3-5 N.mm²
Set Time	10-30 mins
Handling	15-30 mins

Physical Properties of uncured Truloc Superloc 395

Monomer	Di-Methacrylate ester
Colour	Purple
Viscosity, Brookfield 25 deg C	1000 cps
Flash Point (CoC)	100 deg C
Max. gap filling ability	0.20mm
Shelf life at 5 - 25 deg C	1 year min
Temperature Range	-55 to +150 Deg Centigrade

Solvent Resistance

Truloc Superloc 395 has excellent solvent resistance for the majority of locking and sealing applications. After 30 days immersion at 85 degrees centigrade in oil, transmission fluid, gasoline and glycol the strength retained was between 80-90% of original strength.

Temperature Performance

Truloc Superloc 395 is recommended for use at operating temperatures ranging from minus 55 degrees centigrade to plus 150 degrees centigrade.

Resistance to Vibration Loosening

Assembly failure is generally caused by loosening of the assembly by transverse dynamic loads. Truloc Superloc 395 completely fills the void within the joints and thus prevents movement in the assembly, eliminating vibration loosening. The product provides 100% contact between the locking surfaces.

Packaging

Truloc Superloc 395 is available in 10ml, 50ml and 250ml polythene containers.

Storage

Materials should be stored in original containers which provide air space to maintain the product in a liquid state. Store between 5 and 25 deg C for maximum shelf life.

Caution

These products are generally non-toxic and are not common allergenic materials. They can however cause skin sensitising when used continuously where skin is bruised or micro-lacerated. Contact with skin in such conditions should be avoided. Adhesive can be removed from the skin with soap and water.

IRRITANT

Note

The information given in this Data sheet is the result of controlled laboratory tests and experience. It is intended only as a guide to the user in selecting the appropriate grade of Truloc product. Users must satisfy themselves by appropriate tests that the grades they propose to use are suitable for their specific application. Truloc Ltd are not responsible for loss, claim or damages resulting from the use of their products.

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TRULOC Material Safety & Data

Superloc 395 Dated: 01.07.2004

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This safety data sheet has been prepared in accordance with the requirements of EC directive 88/379/EEC and 91/155/EEC (and other directives) and provides information relating to the safe handling and use of the product.

1. PRODUCT IDENTIFICATION

1.1 Product:	Superloc 395
1.2 Company Name: Manufacturer: Local Distributor:	Truloc Ltd Truloc Ltd a/a
1.3 Emergency Contact: First call Local Distributor: Contact Name:	a/a a/a Health & Safety Officer
	Tel: +44 (0) 1286675669 Fax: +(0) 1286674670

2. COMPOSITIONAL INFORMATION

2.1 Nature	Anaerobic Adhesive			
2.2 Composition	Hazardous ingredients	%*	Symbol	Risk phrases
	Methacrylate esters UE N.607-134.00.4	>5	Xi	R36/37/38
	Hydroxypropylmathacrylate CAS 27813-02-1 EINECS 248-666-3	0,1-1	Xi	R36/R43
	Hydroxyethylmathacrylate CAS 868-77-9 EINECS 212-782-2	0,1-2	Xi	R36/38,R43
	Cumene hydroperoxide CAS 80-15-9 EINECS 201-254-7	1	O,T,N	R7,R21/22,R23,R34 R48/20/22,R51/53

3. HAZARD IDENTIFICATION

This product is not classified as hazardous.
May cause irritation on prolonged exposure to damaged skin.
May cause irritation with contact to the eyes.

4. FIRST AID MEASURES

4.1 Inhalation:	Should not be a problem as product is of low volatility. However, if feeling unwell remove to fresh air.
4.2 Skin Contact:	Wash skin with plenty of soap and water, remove contaminated clothing.
4.3 Eye Contact	Flush eyes immediately with plenty of water for at least 15 minutes.
4.4 Ingestion:	Rinse mouth with water, then give plenty of water or milk to drink. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

Non-flammable product (flash point >100^{o}C (CC)).
If product is involved in fire, extinguish with dry powder, foam, carbon dioxide or sand.
Special extinguishing procedures: wear self-contained breathing apparatus.
Explosion/fire hazard: Keep containers cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.
Ventilate area.

7. HANDLING AND STORAGE

7.1 Handling:	Adequate ventilation is recommended to remove trace odours while handling. Avoid contact with skin and eyes.
7.2 Storage:	Store in original containers at $5^{o}C$-$28^{o}C$ and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

PVC gloves and eye protection are recommended. Local ventilation if necessary.

9. PHYSICAL & CHEMICAL PROPERTIES

Odour:	Slightly pungent smell
PH-value	4-6
Change of physical state:	Polymerisation at over 100°C
Flash Point (COC/DIN/ISO 2592):	>100°C
Auto ignition temperature	>380°C
Specific Gravity:	Approx 1.08g/ml @ $20^{o}C$
Solubility in Water:	Immiscible
Solubility in Chloroform:	N/A
Vapour Pressure 20°C DIN 51616:	<0.5 mbar
Viscosity (Brookfield 25°C):	from 10 to more than 100,000 mPa.s

10. STABILITY AND REACTIVITY

The product is stable under normal conditions of use.
Conditions to avoid: heating over 100°C – exposure to direct sunlight.
Materials to avoid: strong oxidising and reducing agents, metals/rust, strong acids.
Hazardous decomposition products: burning produces carbon and nitrogen oxides.

11. ENVIRONMENTAL INFORMATION

Do not convey in water discharges.
Hazard class for water: WGK 1 (self classification): slightly hazardous for water.

12. TOXICOLOGICAL INFORMATION

12.1 Inhalation:	May irritate the respiratory system.
12.2 Skin:	Irritant.
12.3 Eye:	Irritant.
12.4 Ingestion:	LD50 Oral (rat) >5000mg/kg for analogy with similar product.

13. DISPOSAL

Dispose of in accordance with local and national regulations.
Recommended method is by incineration.
European waste disposal number 08 04 00 wastes from MFSU of adhesives and sealants.

14. TRANSPORT INFORMATION

UN No.:	None	Label
Method		
Air:	ICAO.IATA	---
Sea:	IMO/IMDG	---
Road/Rail:	ARD/RID	---

15. REGULATORY LABELLING INFORMATION

Hazard Label: St Andrews Cross – Xi=Irritating
Contains: Hydroxypropyl – Hydroxymethacrylate.
Risk and safety phrases:
R36/37/38 Irritating to eyes, respiratory system and skin.
R43 May cause sensitization by skin contact.
S26 In case of contact with eyes, flush immediately with copious amounts of water, consult medical personnel.
S28 In case of contact with skin wash immediately with copious of water and soap.
S37/39 Wear suitable gloves and eye/face protection.


IRRITANT

16. OTHER INFORMATION

The information contained herein is based upon our present state of knowledge and experience and according to EC regulations and other related: 91/155(2001/58), 67/584(2001/59), 1999/45(2001/60), 91/689(2001/118),89/542, ADR 23.072001.IMDG-Code 30° amd, IATA-DRG 2002.
Relevant R-Phrases
21/22 Harmful by inhalation, in contact with skin and if swallowed.
23 Toxic by inhalation.
34 Causes burns.
36 Irritating to eyes.
36/37/38 Irritating to eyes, respiratory system and skin.
36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
48/20/22 Harmful, danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
7 May cause fire

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