



Material Safety Data Sheet

DUNACLEANER™ ML

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **DUNACLEANER™ ML**

Product type and use: Cleaning solvent for polyurethane foam and epoxy adhesive components

Company: DUNA-USA Inc.
4210 FM 1405
Baytown, TX, USA
1-281-383-3862

In case of emergency call: CHEMTREC 1-800-424-9300 (24 HOURS DAY, 7 DAYS A WEEK)

2. HAZARDS IDENTIFICATION

Physical state: Liquid

Odor: Odorless

Color: Light yellow

OSHA/HCS status: This material is NOT classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency overview: Product poses little or no hazard if spilled. Use cold water spray to cool fire-exposed containers to minimize the risk of ropture.

Potential health effects: Primary routes of entry are skin contact, eye contact, ingestion, inhalation. Medical conditions aggravated by expousure: none known. Acute and chronic effect of exposure: not expected to cause any adverse acute or chronic health effects. Not carcinogenic substance as defined by IARC, NTP, OSHA.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS number	%
Alkylsulfonic Acid Ester of Phenol	70775-94-9	99 – 100
Phenol	108-95-2	< 0.1

4. FIRST AID MEASURES

EYES: Flush eyes with plenty of lukewarm water.

SKIN: Wash affected areas with soap and water.



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INGESTION: If ingested, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: All.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

UNUSUAL FIRE HAZARD Toxic and irritating gases or fumes may be given off during burning or thermal decomposition.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURE Cover spill with inert material (dry sand or earth) and collect for proper disposal

PROTECT PEOPLE: Clear non-emergency personnel from area.

7. HANDLING AND STORAGE

HANDLING: Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Avoid extreme heat and store in a cool dry place.

STORAGE: Storage period is 24 months when stored in original sealed container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Country specific exposure limits have not been established or are not applicable. Under normal conditions of use, special ventilation is not required. None respiratory protection is required under normal condition of use. Use safety glasses with side-shields to protect eyes. No special skin protection requirements.

PHENOL CAS N° 108-95-2 US ACGIH TLV: time weighted average is 5ppm; skin designation is can be adsorbed through the skin; hazard designation: group A4 not classifiable as a human carcinogenic;

US OSHA table Z-1, limits for air contaminants (29 CFR 1910.1000), PEL: 5 ppm, 19 mg/mc; skin designation is can be adsorbed through the skin.



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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Light yellow liquid.
ODOR:	Odorless.
SETTING POINT:	-32 °C (-25.6 °F)
BOILING POINT:	200 °C (392 °F) at 9.75 mm Hg
FLASH POINT:	210 – 240 °C (410 – 464 °F) ASTM D92
VAPOURE PRESSURE:	< 0.000075 mm Hg at 20 °C (68 °F)
SOLUBILITY IN WATER:	0.002 g/l at 20 °C (68 °F)
SPECIFIC GRAVITY:	1.055 at 20 °C (68 °F)
PARTITION COEFFICIENT	> 6.0 OCTANOL/WATER
AUTOIGNITION TEMP	425 °C (797 °F)
DECOMPOSITION TEMP	200°C (392 °F)
VISCOSITY	120 mPa.s at 20 °C (68 °F)
VOLATILE ORGANIC COMPOUNDS CONTENT:	1.25 % EPA method 24

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions. See Storage Section.

CONDITIONS TO AVOID: Extreme heat.

HAZARDOUS DECOMPOSITION PRODUCTS: By fire and thermal decomposition: Carbon Monoxide, carbon dioxide, sulfur dioxide, phenol.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY: LD50: > 5000 mg/kg (Rat)

ACUTE DERMAL TOXICITY: LD50: > 1000 mg/kg (Rat)

SKIN IRRITATION: rabbit: none; human: none (24 h)

EYE IRRITATION: rabbit, none.

DERMAL SENSITIZATION: non sensitizer (guinea pig)

12. ECOLOGICAL INFORMATION

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(For detailed Ecological data, write or call the address or non-emergency number shown in section 1)

BIODEGRADATION: 31%, expousure time 28 days.

TOXICITY: Zebra fish, 96 hours: LC0 100 mg/l; Daphnia magna, 48 hours EC50 1000 mg/l; Green algae, 72 hours EC50 >10000 mg/l; Activated sludge microorganisms, EC50 >10000 mg/l.

13. DISPOSAL CONSIDERATIONS

(See Section 15 for Regulatory Information)

Waste disposal should be in accordance with existing federal, state, provincial and local environmental control laws.

Recondition or dispose of empty container in accordance with governamental regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT (DOT), SEA TRANSPORT (IMDG), AIR TRANSPORT (ICAO/IATA):

Not regulated.

15. REGULATORY INFORMATION

(Not meant to be all-inclusive-selected regulations represented)

OSHA Hazcom Standard rating: Non-Hazardous.

US Toxic Substances Control Act: Listed on the TSCA Inventory

SARA SECTION 311/312 HAZARD CATEGORIES: Non-hazardous

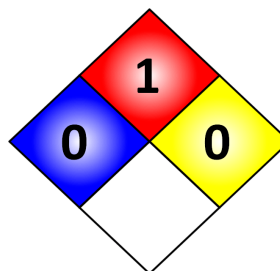
16. OTHER INFORMATION

HAZARD RATING SYSTEM:

Hazardous Material Information System (U.S.A.):

National Fire Protection Association (U.S.A.):

0	Health
1	Flammability
0	Reactivity
	Protective Equipment





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The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The DUNA-USA Inc. Company For Further Information.

Notice to reader

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.