



PRODUCT:

HEAVY ALKYLATED

SDS NUMBER: DT-0003

VERSION: 08

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MATERIAL SAFETY DATA SHEET**1. IDENTIFICATION**

Substance or mixture name (comercial name):	Heavy Alkylated
Internal code product identification:	DetALP®360
Major recommended uses for the substance or mixture:	Lubricating Oils (industrial, refrigeration, transformers, hydraulic); Oleophilic Surfactants; Thermal Fluids, Solvents Plasticizers.
Company name:	Deten Química S.A.
Address:	Rua Hidrogênio, 1744 - Polo Industrial de Camaçari. Camaçari - Bahia. CEP: 42810-010.
Telephone number:	+55 71 3634-3207 / 3208
Emergency telephone number:	+55 71 3634-3333 / 0800-284-8474
Fax number:	+55 71 3634-5155
E-mail:	fala@deten.com.br / comercial@deten.com.br

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Aspiration hazard:	Category 1
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GHS label elements:

Pictograms:



Word of warning:

Danger

Hazard Statement:

May be fatal if swallowed and enters airways.

Precaution Statement:



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IF SWALLOWED: If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER / doctor.

Other hazards which not result in a classification:

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS**MIXTURE****Common chemical name or technical name:**

Linear Alkyl benzene Heavy

Ingredients or impurities which contribute to hazards:

Chemical name or common	CAS registry number	Concentration or concentration range
Benzene mono, C ₁₀₋₁₄ - alkyl derivatives, fractionated bottom	84961-70-6	100%

4. FIRST-AID MEASURES**First-aid measures:**

Inhalation:	Remove victim to fresh air and keep at rest in a comfortable position for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel Loosen tight clothing such as a collar, tie, belt or waistband If the person is unconscious, place in recovery position and seek medical help immediately Seek medical attention immediately
Skin Contact:	Remove contaminated clothing and shoes. Wash exposed areas with plenty of water for at least 15 minutes. If irritation develops, seek medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye Contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue rinse for at least 15 minutes. Seek the assistance of an ophthalmologist.
Ingestion:	Rinse mouth with water. Remove dentures, if any.



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Remove victim to fresh air and keep at rest in a comfortable position for breathing.

If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick.

Do not induce vomiting unless under a doctor's recommendation.

If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

If the person is unconscious, place in recovery position and seek medical help immediately

Most important symptoms and effects, both acute or delayed:

Symptoms:	Nausea or vomiting.
Effect:	May be fatal if swallowed and/ or enters airways.
Notes to physician:	Treat symptomatically. Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIREFIGHTING MEASURES

Extinguishing media:	Use dry chemical, CO ₂ , water spray fog or mechanical foam.
Extinguishing media not recommended:	Water jets directly over the burning liquid.
Specific hazards of the substance or mixture:	Hazardous thermal decomposition products: Carbon oxides (CO, CO ₂).
Protective measures for the firefighting team:	Full protective equipment for firefighters. Position themselves with their backs to the wind. Use respiratory protective equipment in fire fighting Define target zones (hot, warm, cold). Fire-fighting measures: Turn off all sources of ignition; Apply the extinguishing agent set properly; If the fire cannot be extinguished, cool the facilities nearby and let the fire burn in a controlled manner

6. SPILL AND LEAK CONTROL MEASURES**Personal precautions, protective equipment and emergency procedures:**

For non-emergency personnel:	Evacuate surrounding areas. Avoid inhalation, contact with eyes and skin. Do not touch damaged containers or spilled without wearing
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	<p>appropriate protective clothing material.</p> <p>Take no action if any personal risk.</p>
For emergency responders:	<p>Use personal protective equipment.</p> <p>If you suspect the presence of vapors, the rescuer should wear an appropriate mask or self-contained breathing apparatus.</p> <p>It can be dangerous to the one who applies artificial respiration.</p> <p>Wash contaminated clothing thoroughly with water before removing it, wear gloves during the entire operation clothes.</p>

Environmental precautions:

On land:	<p>Prevent the flow of product to rivers, streams, water courses or low-lying areas, underground sewers, wells, soil and vegetation.</p> <p>Contain spill with inert absorbent.</p> <p>The product can be neutralized with sodium carbonate.</p> <p>Place into appropriate waste recovered for recycling or disposal.</p> <p>Report the authorities and alert the neighbors if necessary.</p>
In water:	<p>Report to the port, relevant authorities and other vessels.</p> <p>Block the spill area and avoid ecological damage.</p> <p>Remove the product from the contaminated surface with suitable absorbent.</p>

Methods and materials for containment and cleaning up:	<p>Absorb the material with absorbent material (sand, acid binder, universal binder, sawdust).</p> <p>Place in appropriate container for recycling or disposal.</p> <p>The material can be incinerated under normal conditions controlled in accordance with official regulations and local.</p>
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7. HANDLING AND STORAGE

Precautions for safe handling:	<p>Recommend use of local exhaust in the case of materials in confined spaces or at elevated temperatures.</p> <p>Incompatible with strong oxidizing agents.</p> <p>Do not store close to these, which may increase the risk of fire material.</p> <p>In the loading/ unloading operations shall be avoided packaging falls, downhill on ramps without protection, bearing in rugged terrain to avoid holes, dents or disappearance of product identification.</p> <p>Heavier packages must be transported by forklift.</p> <p>Label the packaging.</p> <p>Materials handling and coating:</p> <p>Suitable: carbon steel, baked epoxy or phenolic or aluminum coatings.</p> <p>Not suitable: natural rubber and butyl rubber</p>
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MATERIAL SAFETY DATA SHEET**Conditions for safe storage,
including any incompatibilities**

Store in original container, protected from sun in a dry, cool and well-ventilated area away from incompatible materials and food and drink.

Keep container tightly closed and sealed until ready for use.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Do not store in unlabelled containers.

Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION**Control parameters**

Occupational exposure limits:	Not established
Biological indicators:	Not established
Other limits and values:	Not established
Appropriate engineering controls:	No special ventilation requirements.

Individual protection measures

Eye/ face protection:	Splash goggles.
Skin and body protection:	Full clothing (pants and long sleeve), PVC gloves and boots.
Respiratory protection:	If during handling of the product there is respiratory distress, use respirator for organic vapors, acid gases and mists.
Thermal Hazards:	Not applicable.
Special precautions:	Chemicals should only be handled by trained people; Install shower and eyewash emergency on the desktop; Strictly follow the operating procedures and safety when working with chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, shape, etc.):	Yellowish liquid
Odor and odor threshold:	Characteristic / Not available



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pH:	Not applicable
Melting point/freezing point:	< -39° C
Initial boiling point and boiling range:	300.4 a 407.5°C
Flashpoint:	Closed vessel: 172,8°C Open vessel: 180°C
Evaporation rate:	Not available
Inflammability (solid, gas):	Not available
Upper/lower flammability or explosive limits:	Not available
Vapour Pressure:	<0,005 kPa [20°C]
Vapour density:	Not available
Relative density:	0.86 a 0.88 [ASTM D 4052-96]
Solubility (ies):	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water:	6.7
Auto-ignition temperature:	310°C
Decomposition temperature:	Not available
Viscosity:	Kinematic: 0,449 cm ² /s [OECD 117] Kinematic (40°C): 0,14 a 0,23 cm ² /s [OECD 117]

10. REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	Stable
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	No specific data.



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MATERIAL SAFETY DATA SHEET**Hazardous decomposition products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50 (dermal, rat): >4300 mg/kg LD50 (dermal, female rat): >3600 mg/kg LD50 (oral, rat): >2000 mg/kg
Corrosion / irritation of the skin:	PDII: Rabbit / Exposure: 4 hours/ Observation: 10 days/ Score: 1,25 PDII: Rabbit / Exposure: 24 hours/ Observation: 7 days/ Score: 0,55
Serious eye damage/ eye irritation:	Not available.
Respiratory or skin sensitization:	Not available.
Germ cell mutagenicity:	OECD 471 471 (Experiment: In vitro / Subject: Mamiferous - Animal): Negative OECD 473 473 (Experiment: In vitro / Subject: Mamiferous - Animal): Negative OECD 476 476 (Experiment: In vitro / Subject: Mamiferous - Animal): Negative
Carcinogenicity:	Not available.
Toxicity to reproduction:	Maternal toxicity (oral / rat): Negative Fertility (oral / rat): Negative Development toxin (oral / rat): Negative
Specific target organ toxicity - Single exposure:	Not available.
Specific target organ toxicity - Repeated exposure:	Not available.
Aspiration Hazard:	Category 1. Kinematic viscosity: 0.14 a 0.23 cm ² /s@40°C

Main symptoms

Inhalation:	No specific data.
Ingestion:	Nausea or vomiting.
Eye Contact:	No specific data.
Skin Contact:	No specific data.

Specific effects



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Inhalation:	No known significant effects or critical hazards
Ingestion:	May be fatal if swallowed and enters airways.
Eye Contact:	No known significant effects or critical hazards
Skin Contact:	No known significant effects or critical hazards

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Acute: CL50 (Fish - Pimephales promelas, fresh water, 96h): >100 mg/L NOEC (Algae - Scenedesmus subspicatus, fresh water, 72h): 2,08 mg/L NOEC (Daphnia - Daphnia Magna Straus, 48h): 1,4 mg/L NOEC (Daphnia - Daphnia magna, 144h): >100 ppb NOEC (Fish - Brachydanio rerio, fresh water, 14 days): >10 ppb Chronicle: NOEC (Daphnia, fresh water, 21 days): 0,015 mg/L NOEC (Daphnia - Daphnia magna, fresh water, 21 days): 0,0075 mg/L
Persistence and degradability:	Not available.
Bioaccumulative potential:	LogPow: 6,7
Mobility in soil:	Not available.
Other adverse effects:	No known significant effects or critical hazards.

13. CONSIDERATIONS ON TREATMENT AND DISPOSAL**Recommended methods for disposal**

Product:	Significant amounts of residual waste product should not be removed by channeling wastewater, but processed in a treatment plant effluent. Dispose of surplus and non-recyclable products via a disposal company authorized waste. Disposal of this product, solutions and any by-products must meet the requirements of environmental protection and legislation for the protection and waste disposal requirements of local regional authorities.
Product waste:	Keep the product remains in their original containers and properly sealed. The waste may be incinerated under controlled conditions as the (national and/ or local) official regulations.



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Empty containers may retain some product residues.

PPE required for treatment and disposal of waste:

Same mentioned in item 8.

14. TRANSPORT INFORMATION**National and international regulations****Land:**

UN - "United Nations"

Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations, 16th Edition, 2009.

UN number	Not classified
UN proper shipping name	Linear Alkyl benzene Heavy
Class/subclass of main risk	Not classified
Class/subclass of subsidiary risk	Not classified
Risk number	Not dangerous
Packing group	III
Danger to the environment	The product is biodegradable. Do not use water affected by the spill.

Sea:

IMO - "International Maritime Organization"

International Maritime Dangerous Goods Code (IMDG Code) - Incorporating Amendment 34-08; 2008 Edition.

UN number	Not classified
UN proper shipping name	Linear Alkyl benzene Heavy
Class/subclass of main risk	Not classified
Class/subclass of subsidiary risk	Not classified
Risk number	Not dangerous
Packing group	III
Danger to the environment	The product is biodegradable. Do not use water affected by the spill.

Air:

IATA - "International Air Transport Association"

Dangerous Goods Regulation (DGR) - 51th Edition, 2010.



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UN number	Not classified
UN proper shipping name	Linear Alkyl benzene Heavy
Class/subclass of main risk	Not classified
Class/subclass of subsidiary risk	Not classified
Risk number	Not dangerous
Packing group	III
Danger to the environment	The product is biodegradable. Do not use water affected by the spill.

15. REGULATORY INFORMATION

Globally Harmonized System of Classification and Labeling of Chemicals (GHS), UN.

16. OTHER INFORMATION

Important information, but not specifically described at the previous sections:	<p>If necessary, or in case of doubts, contact Deten Química or visit our web site at: www.deten.com.br.</p> <p>Additional information available by formal request.</p> <p>Required documents:</p> <ul style="list-style-type: none">a) Certificate of qualification for the transport of dangerous goods in bulk from the vehicle and equipment. (Shipped by INMETRO or entity accredited by him);b) Emergency data sheet, appropriate to the requirements of ABNT;c) Envelope for shipment as NBR7504 ABNT;d) Tax document must describe the goods, their packaging, weight, value, tax if there was, name and address of the shipper, the consignee name or address, conditions of sale or transfer, transportation and departure date, appropriate for each type of movement of goods. (see Order No. 261/89 MT);e) Drivers: category meet the specifications of the vehicle (A, B, C, D or E), the minimum age of 21 years is required.
References:	Not applicable.
Legend and abbreviations:	<p>ABNT: Brazilian Association of Technical Standards;</p> <p>ASTM: American Society for Testing and Materials;</p> <p>BCF: Bioconcentration Factor;</p> <p>CAS: Chemical Abstracts Service;</p> <p>CL50: Lethal Concentration 50%;</p> <p>DL50: Lethal Dose 50%;</p> <p>EC50: Effective concentration of the substance causing 50% maximal response;</p> <p>GHS: Globally Harmonised System;</p>



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INMETRO: National Institute of Metrology, Quality and Technology;
NBR: Designation of ABNT;
NOEC: No Observed Effect;
OCDE: Organisation for Economic Co-operation and Development;
PPE: Personal Protective Equipment;
PVC: Polyvinyl chloride;
UN: United Nations.

NOTE TO THE READER:

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