

Version: 3

Date of issue: 08/04/2020

# **DetALP® 360**

# **Section 1. Identification**

**GHS** product identifier : DetALP® 360

**Product code** : 23201

: Benzene, mono-C10-13-alkyl derivs., distn. residues Chemical name

Other means of : Heavy linear alkylbenzene containing primarily dialkylbenzenes.

identification Heavy Alkylate.

**Product type** : Liquid.

## Relevant identified uses of the substance or mixture and uses advised against

#### Specific uses

Lubricating oils (industrial, refrigeration, transformers, hydraulics)

Oleophilic surfactants

Thermal fluids

Solvents for Plasticizers

Supplier's details : Deten Química S.A.

Rua Hidrogênio, 1744

Complexo Industrial de Camaçari (COPEC)

Camaçari - Bahia - Brasil

CEP: 42.816-140

Telephone number : +55 71 3634-3207 / 3208 Fax: +55 71 3634-5155

Information limitations : 08:00 - 16:30

**Email** fala@deten.com.br / comercial@deten.com.br

tuteladeproducto@cepsa.com / productstewardship@cepsa.com

**Emergency telephone** 

number

· +55 71 3634-3333 / 0800-284-8474

Information limitations : 24/7

# Section 2. Hazards identification

Classification of the substance or mixture : ASPIRATION HAZARD - Category 1

**GHS label elements** 

**Hazard pictograms** 



Signal word : Danger

**Hazard statements** : H304 - May be fatal if swallowed and enters airways.

**Precautionary statements** 

Prevention : Not applicable.

: P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or Response

physician. Do NOT induce vomiting.

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Storage : P405 - Store locked up.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Other hazards which do not : None known.

result in classification

# Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : Benzene, mono-C10-13-alkyl derivs., distn. residues

: Heavy linear alkylbenzene containing primarily dialkylbenzenes. Other means of

identification Heavy Alkylate.

#### **CAS** number/other identifiers

**CAS** number : 84961-70-6 EC number : 284-660-7 **Product code** : 23201

Ingredient name	%	CAS number
Benzene, mono-C10-13-alkyl derivs., distn. residues	100	84961-70-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

### Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

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

> If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out

mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable 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 as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in

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recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

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

### Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.

**Ingestion**: Adverse symptoms may include the following:

nausea or vomiting

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water.

Specific hazards arising

from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: No specific data.

Special protective actions

for fire-fighters
Special protective

equipment for fire-fighters

: Shut off all ignition sources. If fire cannot be extinguished, withdraw from area and allow the fire to burn. Use water spray to keep fire-exposed containers cool.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

mode.

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#### Remark

: IMPORTANT NOTE: Industrial use of heat transfer fluids and /or the use at elevated temperatures

During the use at elevated temperatures thermal decomposition leads to the formation of low-boiling and high-boiling secondary products. During removal of low boiling decomposition products with potential highly flammable properties from the system, appropriate risk management measures for flammable liquids have to be applied – especially when they are concentrated and collected. Risk management measurements for flammable liquids are at least: Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/ protective clothing/ eye protection/ face protection. Advice on protection against fire and explosion: Take the normal measures for

preventive fire protection.

# Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways. drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



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# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

None.

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: Splash goggles.

#### **Skin protection**



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Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer. check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Full suit. PVC gloves. Neoprene gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Suitable protective footwear.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: In case of insufficient ventilation, wear suitable respiratory equipment. Gas filter mask must be worn.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid. Color Yellowish. Odor : Characteristic. Odor threshold : Not available. pН : Not available. **Melting point** : <-39°C (<-38,2°F)

**Boiling point** : 300,4 to 407,5°C (572,7 to 765,5°F)

Flash point : Closed cup: 172,8°C (343°F)

Open cup: 180°C (356°F)

**Evaporation rate** : Not available.

Flammability (solid, gas) : Container explosion may occur under fire conditions or when heated.

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure : <0,005 kPa (<0,0375 mm Hg) [room temperature]

Vapor density : Not available.

Relative density : 0,86 to 0,88 [ASTM D 4052-96] Density : 0,876 g/cm<sup>3</sup> [20°C (68°F)]

Solubility : Insoluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: n-

octanol/water

: 6,7

**Auto-ignition temperature** : 310°C (590°F) **Decomposition temperature**: Not available.

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**Viscosity** : Kinematic (room temperature): 0,449 cm<sup>2</sup>/s (44,9 cSt) [OECD 117]

Kinematic (40°C (104°F)): 0,14 to 0,23 cm<sup>2</sup>/s (14 to 23 cSt) [OECD 117]

Flow time (ISO 2431) : Not available. Molecular weight 350 to 380 g/mole

# Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is 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.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# **Section 11. Toxicological information**

# Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Benzene, mono- C10-13-alkyl derivs., distn. residues	LD50 Dermal	Rat - Female	>3600 mg/kg	-
	LD50 Dermal LD50 Oral	Rat - Male Rat - Male	>4300 mg/kg >2000 mg/kg	-

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Benzene, mono- C10-13-alkyl derivs., distn. residues	Skin - Primary dermal irritation index (PDII)	Rabbit	1,25	4 hours	10 days
	Skin - Primary dermal irritation index (PDII)	Rabbit	0,55	24 hours	7 days

#### Sensitization

Not available.

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Product/ingredient name	Test	Experiment	Result
Benzene, mono- C10-13-alkyl derivs., distn. residues	OECD 471 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 473 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 476 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative

## **Carcinogenicity**

Not available.

# Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Benzene, mono- C10-13-alkyl derivs., distn. residues	Negative	Negative	Negative	Rat	Oral	-
	Negative	Negative	Negative	Rat	Oral	-

# **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
Benzene, mono- C10-13-alkyl derivs., distn. residues	Negative - Oral	Rat	1600 mg/kg	-
	Negative - Oral	Rat	>1000 mg/kg	-
	Negative - Oral	Rat	1000 mg/kg	-
	Negative - Oral	Rat	800 mg/kg	-
	Negative - Oral	Rat	400 mg/kg	-

# Specific target organ toxicity (single exposure)

Not available.

# Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Name	Result
Benzene, mono-C10-13-alkyl derivs., distn. residues	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

# Potential acute health effects

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

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# Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data. Inhalation : No specific data. Skin contact : No specific data.

Ingestion : Adverse symptoms may include the following:

nausea or vomiting

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

# Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Benzene, mono- C10-13-alkyl derivs., distn. residues	Sub-chronic NOAEL Oral	Rat - Male	500 mg/kg	39 days; 5 days per week
	Sub-chronic LOAEL Oral	Rat	1000 mg/kg	39 days; 5 days per week
	Sub-chronic NOAEL Oral	Rat - Female	1000 mg/kg	39 days; 5 days per week
	Chronic NOAEL Oral	Rat - Male, Female	1000 mg/kg	90 days; 5 days per week
	Chronic LOAEL Oral	Rat - Male, Female	8000 mg/kg	90 days; 5 days per week

General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. **Fertility effects** : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

**Acute toxicity estimates** 

N/A

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# **Section 12. Ecological information**

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
Benzene, mono- C10-13-alkyl derivs., distn. residues	Acute LC50 >100 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 2,08 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Acute NOEC >100 ppb	Daphnia - Daphnia magna	144 hours
	Acute NOEC 1,4 mg/l	Daphnia - Daphnia magna straus	48 hours
	Acute NOEC >10 ppb Fresh water	Fish - Brachydanio rerio	14 days
	Chronic LOAEL 0,015 mg/l	Daphnia	21 days
	Chronic NOEC 0,0075 mg/l Fresh water	Daphnia - Daphnia magna	21 days

## Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Benzene, mono- C10-13-alkyl derivs., distn. residues	EU BODIS	28 % - 28 c	lays	6 mg/l		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Benzene, mono- C10-13-alkyl derivs., distn. residues	-	-	Inherent

## **Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Benzene, mono- C10-13-alkyl derivs., distn. residues	6,7	3,162	low

# **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

## **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and

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its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	Brazil	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and

the IBC Code

Proper shipping name

: Alkylbenzene distillation bottoms(n)

: 2 Ship type **Pollution category** : Y

Remarks : Not available.

# Section 15. Regulatory information

### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

**Australia** : This material is listed or exempted.

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Canada : This material is not listed in DSL but is listed in NDSL.

China : This material is listed or exempted.Europe : This material is listed or exempted.

Japan : Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

**New Zealand**: This material is listed or exempted.

Philippines : Not determined.

Republic of Korea : Not determined.

**Taiwan** : This material is listed or exempted.

Thailand : Not determined.
Turkey : Not determined.

United States : This material is listed or exempted.Viet Nam : This material is listed or exempted.

# Section 16. Other information

**History** 

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**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

#### Procedure used to derive the classification

Classification	Justification
ASPIRATION HAZARD - Category 1	Expert judgment

**References**: Not available.

**▼** Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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