SAFETY DATA SHEET

23201 **DetALP® 360**

Section 1. Identification

Product identifier : DetALP® 360

Product code : 23201

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

Other means of identification : Heavy linear alkylbenzene containing primarily dialkylbenzenes.
Heavy Alkylate.

Product type : Liquid.

Recommended use of the chemical and restrictions on use

Identified uses

Not applicable.

Specific uses

Lubricant oils (industrial, cooling, transformers, hydraulics)
Oleophilic tense
Thermal fluids
Solvents for plasticizers

Details of the supplier of the safety data sheet

Supplier/Manufacturer, Distributor or Importer : CEPSA Química, S.A.
Torre Picasso
Plaza Pablo Ruiz Picasso 1
28020 Madrid - España

Email : tuteladeproducto@cepsachemicals.com
productstewardship@cepsachemicals.com

Telephone number : +34 913 376 000

Hours of operation : 07:30 - 19:30 (CET)

Emergency telephone number

Supplier/Manufacturer, Distributor or Importer

Telephone number :

+44 1865 407333 (Europe, English)	+44 1235 239670 (Europe, multiple Languages)
+34 91 114 2520 (Spain)	+33 1 72 11 00 03 (France)
+351 30880 4750 (Portugal)	+49 89 220 61012 (Germany)
0800 000 7801 (Germany)	+30 21 1198 3182 (Greece)
+46 8 566 42573 (Sweden)	+47 2103 4452 (Norway)
+45 8988 2286 (Denmark)	+358 9 7479 0199 (Finland)
+39 800 699 792 (Italy)	+48 22 307 3690 (Poland)
+31 10 713 8195 (Netherlands)	+420 228 882 830 (Czechoslovakia)
+90 212 375 5231 (Turkey)	

+1 866 928 0789, +1 215 207 0061 +1 202 464 2554 (United States and Canada)

+52 55 5004 8763 (Mexico) +55 11 3197 5891 (Brazil) +56 2 2582 9336 (Chile)

+44 1235 239671 (Middle East/Africa)	+973 1619 8321 (Middle East/Bahrein)
+27 21 300 2732 (Africa/South Africa)	007 803 011 0293 (Asia East/South East)

+65 3158 1074 (Indonesia)	001 800 120 666 751 (Tailandia)
+63 2 8231 2149 (Philippines)	+60 3 6207 4347 (Malasia)
+86 512 8090 3042 (China and Taiwan)	+886 2 8793 3212 (Taiwan)
+86 532 8388 9090 (China Mainland)	+91 11 6641 1405 (India)
+65 3158 1329 (Pakistan)	+65 3158 1195 (Sri Lanka)
+65 3158 1285 (Korea)	+82 2 3479 8401 (South Korea)
+84 8 4458 2388 (Vietnam)	0120 015 230 (Japan)
+61 2 8014 4558 (Australia)	+64 9 929 1483 (New Zealand)

Hours of operation : 24/7

Section 2. Hazard 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.

Response : P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

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 result in classification : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

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

Other means of identification : Heavy linear alkylbenzene containing primarily dialkylbenzenes. Heavy Alkylate.

CAS number/other identifiers

CAS number : 84961-70-6

EC number : 284-660-7

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.

Section 4. First aid measures

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. 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 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 : 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.

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, CO_2, 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.

Section 5. Fire-fighting measures

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

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.

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.

Conditions for safe storage, including any incompatibilities : 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.

Biological exposure indices

No exposure indices known.

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

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

Section 8. Exposure controls/personal protection

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 : The proper footwear and any other necessary cutaneous protection measure should be chosen depending on the task that is carried out and the risks involved. Such measures must be approved by a specialist before proceeding to manipulation 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 and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.

Color : Yellowish.

Odor : Characteristic.

Odor threshold : Not available.

pH : Not available.

Melting point/freezing point : <-39°C (<-38,2°F)

Boiling point, initial boiling point, and boiling range : 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)

Flammability : Container explosion may occur under fire conditions or when heated.

Lower and upper explosion limit/ flammability limit : Not available.

Vapor pressure : <0,005 kPa (<0,0375 mm Hg)

Relative vapor density : Not available.

Relative density : 0,86 to 0,88

Density : 0,876 g/cm³ [20°C (68°F)]

Solubility(ies) :

Media	Result
cold water	Not soluble
hot water	Not soluble

Solubility in water : Not available.

Partition coefficient: n-octanol/water : 6,6

Auto-ignition temperature : 310°C (590°F)

Decomposition temperature : Not available.

Section 9. Physical and chemical properties and safety characteristics

Viscosity : Kinematic (room temperature): 44,9 mm^2/s (44,9 cSt) [OECD 117]
Kinematic (40°C (104°F)): 14 to 23 mm^2/s (14 to 23 cSt)

Molecular weight : 350 to 380 g/mole

Particle characteristics

Median particle size : Not applicable.

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	Rat - Male	>4300 mg/kg	-
	LD50 Oral	Rat - Male	>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.

Mutagenicity

Section 11. Toxicological information

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 *In vitro* 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

Product/ingredient 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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Section 11. Toxicological information

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 effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

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 LOAEL Oral	Rat	1000 mg/kg	39 days; 5 days per week
	Chronic LOAEL Oral	Rat - Male, Female	8000 mg/kg	90 days; 5 days per week
	Sub-chronic NOAEL Oral	Rat - Male	500 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

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

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 1,4 mg/l	Daphnia - Daphnia magna straus	48 hours
	Acute NOEC >100 ppb	Daphnia - Daphnia magna	144 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

Section 12. Ecological information

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Benzene, mono-C10-13-alkyl derivs., distn. residues	EU BODIS	28 % - 28 days	6 mg/l	-

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

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Benzene, mono-C10-13-alkyl derivs., distn. residues	6,6	3,162	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : 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 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

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-

Section 14. Transport information

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 IMO instruments

Proper shipping name : Alkylbenzene distillation bottoms(n)

Ship type : 2

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.

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

China : This material is listed or exempted.

Eurasian Economic Union : **Russian Federation inventory**: This material is listed or exempted.

Japan : **Japan inventory (CSCL)**: 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 : This material is listed or exempted.

Turkey : Not determined.

United States : This material is active or exempted.

Viet Nam : This material is listed or exempted.

Section 16. Other information

History

Date of printing : 24/05/2023

Date of issue/Date of revision : 24/05/2023

Date of previous issue : 06/02/2023

Version : 3

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)
N/A = Not available
SGG = Segregation Group
UN = United Nations

CN code : 3817 00 80; 3824 99 92

:

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 above-named 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.