

Heavy Alkylbenzene



SECTION 1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
Product name	Heavy Alkylbenzene, HAB			
Synonyms	Specialty Alkylate Bottoms			
Product Use	As a chemical intermediate in textile industry products, refrigerating oils, thermal fluids, electrical oils, plasticizers, greases, mining, oilfield drilling, etc.			
Company	Iran Chemical Industries Investment Co. (ICIIC)			
Address	Western side of Montazeri Power Plant, Azadegan Highway (15 km northward), Esfahan, Iran. Tel.: +983133808350-7			
Emergency telephone number	+983133942428			
E-mail address	info@iciiclab.com			

SECTION 2 HAZARDS IDENTIFICATION



GHS Hazards

Aspiration hazard

Category 1

Hazard statements	H304 May be fatal if swallowed and enters airways.			
Precautionary statements				
Response	P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.			
	P331 do not induce vomiting.			
Storage	P405 Store locked up.			
Disposal	P501 Dispose of contents/ container in accordance with local/ regional/			

SECTION 3	COMPOSITION/INFORMATION ON INGREDIENTS			
Components	EC No.	CAS-No.	Weight percent	
Benzene, mono-C10-13-alkyl derivs, distn. residues	284-660-7	84961-70-6	N/A	

national/international regulations.

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

Revision Date: 10/18/2020 Version: 6 Page 1 of 8



Heavy Alkylbenzene



SECTION 4	FIRST AID MEASURES		
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.		
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician Wash contaminated clothing before re-use.		
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.		
Ingestion	If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.		
SECTION 5	FIREFIGHTING MEASURES		
FLAMMABLE PROPERTIES	•		
Fire/explosion	Spontaneous combustion can occur should the product come into contact with hot fiber glass or mineral fiber insulations (e.g. in case of leakages), especially when exposed to atmospheric oxygen (e.g. removal of insulation panels). NFPA Class IIIB combustible liquid.		
Suitable extinguishing media	Water spray or fog, foam, dry chemical, CO ₂		
Protective equipment and precautions for firefighters	In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary.		
Further information	Keep containers and surroundings cool with water spray. Do not use a solid water stream as it may scatter and spread fire. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.		
SECTION 6	ACCIDENTAL RELEASE MEASURES		
Methods and materials	Ventilate the area. Contain spillage, and then collect with non- combustible		
for containment and cleaning up	absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.		
SECTION 7	HANDLING AND STORAGE		
Safe handling advice	Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from sources of ignition - No smoking. Keep container tightly closed. The use of foam glass as an insulating material can reduce the risk of such spontaneous combustion. Insulation material soaked with the product must be replaced with new insulation material as soon as possible.		
Storage/Transport pressure	Ambient		
Load/Unload temperature	Ambient		



Heavy Alkylbenzene



SECTION 8	EXPOSURE CONTROLS/PERSONAL PROTECTION		
ENGINEERING MEASURES	Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines). Provide adequate ventilation. Use explosion-proof electrical/ ventilating/ lighting/ equipment.		
PERSONAL PROTECTIVE EQUIPMENT			
Eyes	Safety glasses with side-shields		
Skin	Wear suitable protective clothing, gloves and eye/face protection.		
Inhalation	Respiratory protection is normally not required except in emergencies or values conditions cause excessive airborne levels of mists or vapors. Use NI approved respiratory protection.		
EXPOSURE GUIDELINES	Contains no substances with occupational exposure limit values.		
SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	liquid;		
Colour	Pale yellow		
Form	liquid		
Odour	Hydrocarbons		
Odour Threshold	no data available		
Flash point	170-200 °C (338-392 °F);		
Flammability	Upper explosion limit: no data available Lower explosion limit: no data available		
Boiling point/boiling range	320-550 °C (608-1022 °F);		
Auto-ignition temperature	300 °C (572 °F);		
Decomposition temperature	no data available;		
Average Molecular Weight	340-350 g/mol;		
Density	<0.895 g/cm³ @ 20 °C (68 °F);		
Water solubility	Insoluble		
Viscosity	23.1 c.St @ 37.8 °C (100.04 °F);		
рН	no data available		
Evaporation rate	no data available		
Partition coefficient: n-octanol/water	no data available		
SECTION 10	STABILITY AND REACTIVITY		
Reactivity	Stable at normal ambient temperature and pressure.		
Chemical stability	ility No decomposition if stored and applied as directed.		



Heavy Alkylbenzene



Conditions to avoid Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

Extremes of temperature and direct sunlight.

No decomposition if stored normally. Stable under normal conditions. Use at Hazardous decomposition products

elevated temperatures can lead to thermal decomposition and the formation of low-boiling and high-boiling secondary products (e.g. hydrocarbons). During removal of low-boiling decomposition products from the system, appropriate

risk management measures for flammable liquids must be applied.

Materials to avoid Strong oxidizing agents

	Strong oxidizing agonto		
Hazardous polymerisation	None.		
SECTION 11	FOXICOLOGICAL INFORMATION		
Acute dermal toxicity	LD50 rabbit: > 2,000 mg/kg		
Acute inhalation toxicity	no data available		
Acute oral toxicity	LD50 rat: > 5,000 mg/kg		
Skin corrosion/irritation	Primary irritation (rabbit): 0.8 (Max. score is 8.0.)		
Eye damage/irritation	Primary irritation (rabbit): 3.7 (Max. score is 110.)		
Respiratory or skin sensitization	no data available		
Germ cell mutagenicity	Genotoxicity in vitro: no data available		
	Genotoxicity in vivo: no data available		
	Assessment Mutagenicity: no data available		
Reproductive toxicity	Reproductive toxicity:		

no data available

Assessment Reproductive toxicity:

no data available Teratogenicity: no data available

Assessment teratogenicity:

Assessment carcinogenicity:

no data available

STOT - single exposure no data available STOT - repeated exposure no data available **Aspiration toxicity**

no data available Carcinogenicity

Contains no ingredient listed as a carcinogen

Revision Date: 10/18/2020 Version: 6 Page 4 of 8



Heavy Alkylbenzene



SECTION 12	ECOLOGICAL INFORMATION		
Aquatic toxicity	Aquatic toxicity is unlikely due to low solubility.		
Toxicity to fish	Aquatic toxicity is unlikely due to low solubility., Expected to be found on solid surfaces such as sediments, soils and biosludges and not in the water., (Based on analogy with similar products).		
Toxicity to aquatic invertebrates	no data available		
Toxicity to algae	no data available		
Chronic toxicity to fish	no data available		
Chronic toxicity to aquatic invertebrates	no data available		
Biodegradation Bioaccumulation	Biodegradable, but at slow rates. Due to its low solubility in water, large amounts can be eliminated by separators for oil or fat. no data available		
Mobility in soil	no data available		
Other adverse effects	no data available		
SECTION 13	DISPOSAL CONSIDERATIONS		
Waste Code	Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations.		
Disposal methods	Dispose of only in accordance with local, state, and federal regulations.		
Empty containers.	Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.		
SECTION 14	TRANSPORT INFORMATION		
DOT	Not regulated		
501	Not regulated.		
IATA	Not regulated.		
	·		
IATA IMDG	Not regulated.		
IATA IMDG	Not regulated. Not regulated.		
IATA IMDG Transport in bulk according	Not regulated. Not regulated. to Annex II of MARPOL 73/78 and the IBC Code		



Heavy Alkylbenzene



Listed

SECTION 15

REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA Hazards (HCS 1994)

Non-hazardous substance

TSCA Inventory Listing

Components

Benzene, mono- C10-13-alkyl derivs., distn. Residues

84961-70-6

SARA 302 Status

Components CAS-No. Weight percent

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification

Non-hazardous substance

SARA 313 Chemical

Components CAS-No. Weight percent

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Australia. Inventory of Chemical Substances (AICS)

<u>Components</u> <u>Reportable Quantity</u> <u>Weight percent</u>

none

INTERNATIONAL REGULATIONS

WHMIS Classification

WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

European Union

The product does not need to be labelled in accordance with EC directives or respective national laws.

Japan. Inventory of Existing and New Chemical Substances (ENCS)

Listed

Not listed

Canada. Domestic Substances List (DSL) Inventory

Canadian Non-Domestic Substance Listing (NDSL)

European Inventory of Existing Commercial Chemical Substances (EINECS) Listing

Philippines. Inventory of Chemicals / Chemical Substances (PICCS)

Not listed

Korea. Existing Chemicals Inventory (KECI)

Not listed

China. Inventory of Existing Chemical Substances (IECSC)

Listed

Mexico. National Inventory of Chemical Substances (INSQ)

Not listed

Revision Date: 10/18/2020 Version: 6 Page 6 of 8



Heavy Alkylbenzene



New Zealand. Inventory of Chemicals (NZIoC)

Not listed

Switzerland. Inventory of Notified New Substances (CHINV)

Listed

Taiwan. National Existing Chemical Inventory (NECI)

Listed

STATE REGULATIONS

California Prop. 65

Components CAS-No.

none

SECTION 16	OTHER INFO	OTHER INFORMATION			
HAZARD RATINGS	-				
				Physical Hazard/	
		<u>Health</u>	<u>Flammability</u>	<u>Instability</u>	
	NFPA	1	1	1	

Abbreviations and Acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

CFR: Code of Federal Regulations

CPR: Controlled Products Regulation

DOT: Department Of Transportation

HMIS: Hazardous Materials Identification System

IATA: International Air Transport Association

IBC: International Boundary Commission

IMDG: International Maritime Code for Dangerous Goods

LD50: Lethal dose, 50 percent

MARPOL: Maritime Pollution

NFPA: National Fire Protection Association

OSHA: Occupational Safety & Health Administration

PEL: Permissible Exposure Limit

SARA: SuperFund Amendments & Reauthorization Act

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value

TSCA: United States Toxic Substances Control Act Inventory

US. EPA: United States Environmental Protection Agency

Revision Date: 10/18/2020 Version: 6 Page 7 of 8



Heavy Alkylbenzene



WHMIS: Workplace Hazardous Materials Information System

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Revision Date: 10/18/2020 Version: 6 Page 8 of 8