

Trade nan	ne		Diisobutyl carbinol (DIBC)
Chemical Name			2,6-Dimethyl-4-heptanol
CAS Number			108-82-7
EC Numb			203-619-6
			substance or mixture and uses advised against
Relevant i	dentified		lvent for lacquers, printing inks and hydrogen peroxide manufact
T T • 1 4	• @• 1		raction solvent; rubber additive
Uses identi	0		t for use other than those specified
1.3 Details of th Manufact			rasol Chemicals Pvt. Ltd.,
Wanutaet	urei		Prasol House, Plot No.A-17/2/3,
			T.C. Indl. Area, Khairne M.I.D.C.,
			Vavi Mumbai - 400 710.
			Aaharashtra, India.
Telephon	e		.91-22-27782555
Telefax			91-22-27782430
e-mail ad	ldress	Sa	ales@prasolchem.com; inquiry@prasolchem.com
1.4 Emergency	telephon		- • • •
Telepho	one		91-22- 27782555
Langua	ge	E	English
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	Ingredient 2,6-dimethyl-4-heptano 4,6-dimethyl-2-heptano		EC No. 203-619-6 unlisted	Concentration (%) 70 min 30 max
Add	litional information: Molecular Formula $C_9H_{10}C$ Molecular Weight144.26			
SE(4.1 4.2 4.3	General information After inhalation After skin contact After eye contact After swallowing Most important symptoms and effects, both acute and delayed	es Take off all contaminat If inhaled, remove to fr evaluate the need for an Wash off with plenty o Rinse with plenty of wa Do not induce vomiting	resh air. If brea rtificial respirat f water immediate g and seek med s and skin. Fa itant.	thing is difficult, give oxygen. If unconsection. Get immediate medical attention iately, seek medical advice if necessary. ly and seek medical advice. lical advice immediately. tigue, nausea, unconsciousness.
SE	CTION 5: Firefighting mo	easures		
5.1	Extinguishing media Suitable extinguishing media Unsuitable extinguishing med	CO ₂ , dry powder, ia water jet		
5.2	Special hazards arising from the substance or mixture		ble liquid er than air and	case of fire. may travel a long distance and accumulat or flash back may occur.
5.3	Advice for firefighters	Use fine water spi Move undamaged Do not allow fire Fire residuals and	ray to cool end containers fro water to penetr contaminated	angered containers. m immediate hazard area. rate into surface or ground water. l extinguishing water must be disposed on ns of the local authorities.

• SECTION 6: Accidental release measures

6.1	Personal precautions,	Remove persons not involved upwind.
	protective equipment and	Wear a self-contained breathing apparatus and chemical protective clothing.
	emergency procedures	Solvent-resistant protective clothing recommended.
6.2	Environmental precautions	Plug leak if safely possible.
		Do not allow to enter drains, surface waters, basements or pits.
		When released into the environment, alert police and fire brigade.
6.3	Methods and material for	In case of spills of large quantities: Dam spills and pump to remove.
	containment and cleaning up	Explosion protection required. Absorb leftover product with non-flammable
		liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone)
		and place in closed containers for disposal.
6.4	Reference to other sections	Section 8 for information on personal protection equipment.
		Section 13 for disposal information

• SECTION 7: Handling and storage

7.1 Precautions for safe handling Provide adequate ventilation, and local exhaust as needed. Provide room air exhaust at ground level. Concentrated vapours are heavier than air. Avoid the formation of aerosol. Do not breathe vapours. Use only explosion-protected equipment/instruments. Do not use air pressure.



7.2	2 Conditions for safe storage, including any incompatibilities					
	Advice on protection against Keep away from sources of ignition No smoking. Take precautionary					
	measures against static discharge. Beware of re-ignition. Potentially explosive					
		mixture may form within partially empty containers. Emergency cooling must				
		be provided for in case of a fire in the vicinity. Do not weld.				
	Storage	Keep container dry. Keep container tightly closed in a cool, well-ventilated				
		place. Protect from direct sunlight.				
		Steel, stainless steel are stable container materials.				
	Advice on common storage	Observe prohibition against storing together!				
	Storage class 4 Combustible liquids					
	Storage stability Stable under recommended storage conditions					
7.3	Specific end use(s)	Solvent				

SECTION 8: Exposure controls/personal protection

8.1 8.2	Control parameters Exposure controls	Occupational Exposure Limits have not been established				
	Appropriate engineering controls	Explosion protection required. Provide good ventilation and/or an exhaust system in the work area.				
	Personal protective equipme	ent				
	Eye/ face protection	closed goggles, face shield				
	Skin protection					
	Hand protection	Butyl-rubber 0.5 mm > 480 min				
	Body protection	Flame-retardant antistatic protective clothing; safety she	bes			
	Respiratory protection	Respiratory equipment with suitable filter or a self-cont	ained respiratory apparatus.			
	Thermal hazards	Combustible liquid; do not expose to heat				
	Industrial hygiene	Do not inhale vapours / aerosols. Avoid contact with skin and eyes. Remove immediately all contaminated clothing. Use disposable clothing if appropriate. Smoking, eating and drinking should be prohibited in the application area.				

SECTION 9: Physical and chemical properties

•	9.1	Information on basic physical and chemical properties			
		Appearance	Colourless liquid		
		Odour	alcohol-like		

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	Odour	alcohol-like
	Odour threshold	no data available
	рН	no data available
	Melting point	<-65°C
	Boiling point	178°C
	Flash point	66°C (Closed cup)
	Evaporation rate	0.02 (nBuAc=1)
	Flammability (solid, gas)	combustible
	Flammability limits	Lower 0.8 Vol %
	-	Upper 6.1 Vol %
	Vapour pressure	0.1 hPa at 20°C
	Vapour density	4.97 (air =1)
	Relative density	0.811 at 20°C
	Solubility in water	0.06% at 20°C
	Partition coefficient	no data available
	Ignition temperature	no data available
	Decomposition temperature	no data available
	Viscosity	15.4mPa.s at 20°C
	Explosive properties	No explosive properties.
	Oxidizing properties	no oxidizing properties
9.2	Other information	
	Refractive index	1.423 at 21°C

SECTION 10: Stability and reactivity

♦ 10.1 Reactivity

Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may back-flash over great distances when ignited.



		May become electrostatically charged.
10.2	Chemical stability	Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable.
10.3	Possibility of hazardous reactions	No known hazardous reactions if used as directed
10.4	Conditions to avoid	Combustible. Concentrated vapours are heavier than air. Forms explosive mixtures with air, also in empty, uncleaned containers.
10.5	Incompatible materials	Strong acid, strong oxidizing agents
10.6	Hazardous decomposition products	Thermal decomposition products- carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute tox	icity					
LD50	oral	rat	3560 mg/kg bw	not classified		
LC50	Dermal	rabbit	4593mg/kg bw	not classified		
LD50	inhalation	no data				
Skin irrit	ation		Mild skin irritat	ion 24 h (rabbit)		
Serious e	ye irritation		slightly irritating - 24 h (rabbit)			
Respirato	ory or skin sen	sitization	No sensitizing effects known			
Germ cell	mutagenicity		non mutagenic (Ames test)			
Carcinog	enicity		no indications for a carcinogenic potential			
Reproduc	tive toxicity		no adverse effect on reproduction (rat)			
STOT-single exposure			irritating to eye and skin; Category 2 respiratory tract irritation			
STOT-repeated exposure			effects on liver have been reported			
Aspiration hazard			no data available	e		

SECTION 12: Ecological information

12.1 Toxicity

	Aquatic toxicity				
	Toxicity to fish	LC50	96h	10-100mg/L	Pimephales promelas
	Toxicity to aquatic invertebrates	EC50	48h	47.8 mg/L	Daphnia magna
	Toxicity to aquatic algae and cyanobacteria	ErC50	96h	29.95 mg/L	Pseudokirchneriella subcapitata
	Toxicity to microorganisms	EC50	3h	842mg/L	sewage, domestic
12.2	Persistence and degradability				
	Biodegradation	readily biodegradable (73% in 10days)			
12.3	Bioaccumulative potential Bioconcentration factor between 100-3000				
		very low	v potent	ial for bioaccum	ulation
12.4	Mobility in soil	log Pow	= 3.09	; very low potent	tial for geoaccumulation
12.5	Results of PBT and vPvB assessment	Not a PH	BT, vPv	B substance acc	ording to the REACH regulation
12.6	Other adverse effects	No furth	er info	mation available	

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Observe all federal, state, and local environmental regulations.
Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Do not dispose in sewage.

• SECTION 14: Transport information

	-	ADR/RID	IMDG	ICAO/IATA	
14.1	UN Number	-	-	-	
14.2	UN proper shipping name	not	t a hazardous p	roduct	
14.3	Transport hazard class	-	-	-	
14.4	Packaging group	-	-	-	
14.5	Environmental hazards	not environmen available data	tally hazardou	s, not a marine pollutant based	d on
14.6	Special precautions for the user	Combustible lic	quid; Flash poir	nt 66° C (closed cup)	
Revisi	on: 17-02 Replace	es Version: 15-01		Page 4 of 5	



14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

♦ SECTION 15: Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	Major accident hazard	Seveso III	not applicable			
	International Chemical In	ventory Status				
	USA (TSCA)	listed				
	Canada (DSL)	listed				
	Australia (AICS)	listed				
	Japan (MITI)	listed				
	Korea (KECL)	listed				
	Philippines (PICCS)	listed				
	China	listed				
	New Zealand	listed				
	Taiwan	listed				
15.2	Chemical safety	A Chemical Sa	fety Assessment will be carried out at the time of			
	assessment	REACH registrat	tion			

• SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Further information:

Sections in which changes have been made since the last version are marked with a diamond \blacklozenge in the left hand margin.

Abbreviations and acronyms in English language:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification for Labeling and Packaging
DSL	Domestic Substances List
EC	European Commission
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
ErC50	EC50 in terms of reduction of growth rate
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
KECL	Korea Existing Chemicals List
KOC	Soil adsorption coefficient
KOW	Partition Coefficient octanol-water
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships
MITI	Ministry of International Trade and Industry
NOAEC	No Observed Adverse Effect Concentration
PBT	Persistent, bioaccumulative and toxic substances
PICCS	Philippine Inventory of Chemicals and Chemical Substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act
UN	United Nations
vPVB	(very) Persistent, (very) Bioaccumulative
Sources	
Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the	
European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of	
Chemicals (REACH)	

ECHA https://echa.europa.eu/substance-information/-/substanceinfo/100.003.291

HSDB https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/r?dbs+hsdb:@term+@rn+@rel+108-82-7