Honeywell

Heptane			
H2198-1L			
Version 1.1		Revision Date 08/27/2021	Print Date 05/15/2023
SECTION 1. IDENTIFICATION			
Product name	:	Heptane	
Number	:	00000020373	
	•		
Product Use Description	:	Laboratory chemicals	
Manufacturer or supplier's details	:	Honeywell International Inc. 1953 South Harvey Street Muskegon, MI 49442	
For more information call	:	1-800-368-0050 +1-231-726-3171(Monday-Friday, 9:00	am-5:00pm)
In case of emergency call	:	Medical: 1-800-498-5701 or +1-303-3 Transportation (CHEMTREC): 1-800- +1-703-527-3887	
	:	(24 hours/day, 7 days/week)	
SECTION 2. HAZARDS IDENTIF		ATION	
Emergency Overview			
Form		: liquid	
Color		: colourless	
Odor		: characteristic	
Classification of the substa	anc	e or mixture	
Classification of the substand or mixture	ce	: Flammable liquids, Category 2 Skin irritation, Category 2 Specific target organ toxicity - single Central nervous system Aspiration hazard, Category 1	exposure, Category 3,

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GHS Label elements. includi	ng precautionary statements	
Symbol(s)		
Signal word	: Danger	
Hazard statements	 Highly flammable liquid and vapor May be fatal if swallowed and en Causes skin irritation. May cause drowsiness or dizzine 	iters airways.
Precautionary statements	 Prevention: Keep away from heat/ sparks/ op smoking. Keep container tightly closed. Ground/bond container and rece Use explosion-proof electrical/ ve Use only non-sparking tools. Take precautionary measures ag Avoid breathing dust/ fume/ gas/ Wash skin thoroughly after hand Use only outdoors or in a well-ve Wear protective gloves/protective protection. 	eiving equipment. entilating/ lighting equipment. gainst static discharge. ' mist/ vapours/ spray. ling. entilated area.
	Response: IF SWALLOWED: Immediately c IF ON SKIN (or hair): Remove/T contaminated clothing. Rinse ski IF INHALED: Remove victim to f position comfortable for breathin Call a POISON CENTER/ doctor Do NOT induce vomiting. If skin irritation occurs: Get medi Take off contaminated clothing a In case of fire: Use dry sand, dry foam for extinction.	Take off immediately all n with water/ shower. resh air and keep at rest in a g. r if you feel unwell. cal advice/ attention. and wash before reuse.
	Storage: Store in a well-ventilated place. I Keep cool. Store locked up.	Keep container tightly closed.
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	Disposal: Dispose of co plant.	ntents/ container to an a	approved waste disposal
Carcinogenicity			
No component of this prod anticipated carcinogen by		eater than or equal to 0.1	1% is identified as a knowr
ECTION 3. COMPOSITION/I	NFORMATION ON INC	GREDIENTS	
Formula	: C7H16		
Chemical nature	: Substance		
Chemic	al name	CAS-No.	Concentration
Heptane		142-82-5	100.00 %
ECTION 4. FIRST AID MEAS General advice Inhalation	 First aider need area. Take off a unconscious, pl advice. In case of accid 	ls to protect himself. Mo all contaminated clothing lace in recovery position lent by inhalation: remov t. Consult a physician.	immediately. If and seek medical
Skin contact		th skin, wash immediate	ely with plenty of soap
Eye contact		ed eye. Rinse thoroughl eyelids. Call a physician	
Ingestion	: When swallowe immediately.	ed, allow water to be dru	nk. Call a physician
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Notes to physician	
Most important symptoms/effects, acute and delayed	: No information available.
	: Treat symptomatically.
ECTION 5. FIREFIGHTING MEAS	SURES
Suitable extinguishing media	: Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during firefighting	 Flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Vapors may travel to areas away from work site before igniting/flashing back to vapor source. Fire may cause evolution of: Carbon oxides
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas.
Further information	 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
ECTION 6. ACCIDENTAL RELE	ASE MEASURES
Personal precautions, protective equipment and emergency procedures	 Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Ensure adequate ventilation.
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		Remove all sources of ignition.	
Environmental precautions	:	Do not flush into surface water or san Prevent further leakage or spillage if s	
Methods and materials for containment and cleaning up	:	Ventilate the area. Do not use sparking tools. Use explosion-proof equipment. Contain spillage, soak up with non-co material, (e.g. sand, earth, diatomaced transfer to a container for disposal act regulations (see section 13).	ous earth, vermiculite) and
TION 7. HANDLING AND ST	OR	AGE	
Handling			
Precautions for safe nandling	:	Wear personal protective equipment. Use only in well-ventilated areas.	
Advice on protection against ire and explosion	:	Keep product and empty container aw of ignition. No smoking. Take precautionary measures against Vapours may form explosive mixtures	t static discharges.
Storage			
Conditions for safe storage, ncluding any ncompatibilities	:	Store in area designed for storage of f from physical damage. Keep containers tightly closed in a dry place. Store in original container.	·
Advice on common storage	:	Do not store together with oxidizing a	nd self-igniting products.
TION 8. EXPOSURE CONTE	ROL	S/PERSONAL PROTECTION	
Protective measures	:	Ensure that eyewash stations and saf the workstation location.	ety showers are close to
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		Legal requirements are to be consider selection, use and care of personal p Avoid inhalation of vapour or mist.	
Engineering measures	:	Use with local exhaust ventilation. Take measures to prevent the build u Use explosion-proof equipment.	up of electrostatic charge.
Eye protection	:	Tightly fitting safety goggles	
Hand protection	:	Wear nitrile rubber gloves to avoid co Gloves must be inspected prior to use Replace when worn.	
Skin and body protection	:	Protective suit	
Respiratory protection	:	In case of insufficient ventilation, wea equipment.	ar suitable respiratory
Hygiene measures	:	Take off all contaminated clothing im Recommended preventive skin prote Keep working clothes separately. When using, do not eat, drink or smo	ction
Exposure Guidelines			

Value Control Upda CAS-No. Basis Components parameters te Heptane 142-82-5 STEL : (500 ppm) 02 ACGIH:US. ACGIH Short 2012 Threshold Limit Values, as amended term exposure limit

Heptane	142-82-5	TWA :	(400 ppm)	02	ACGIH:US. ACGIH
		Time		2012	Threshold Limit
		weighted			Values, as amended
		average			

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sion 1.1	R	evision Date	08/27/2021		Print Date 05/15/202
Heptane	142-82-5	Ceil_Tim e : Ceiling Limit Value and Time Period (if specified) :	1,800 mg/m3 (440 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Heptane	142-82-5	REL : Recomm ended exposure limit (REL):	350 mg/m3 (85 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Heptane	142-82-5	PEL : Permissi ble exposure limit	2,000 mg/m3 (500 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Heptane	142-82-5	TWA : Time weighted average	1,600 mg/m3 (400 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Heptane	142-82-5	STEL : Short term exposure limit	2,000 mg/m3 (500 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
CTION 9. PHYSICA Physical state	L AND CHEMICA : liq	-	IES		
Color		lourless			
		aracteristic			
Odor	: Ch				

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Odor threshold	: Note: No data available	
рН	: Note: Not applicable	
Melting point/range	: -90.5 °C	
Boiling point/boiling range	: 98.2 - 98.4 °C at 1,000 hPa	
Flash point	: 25 °F (-4 °C)	
Evaporation rate	: Note: No data available	
Flammability	: Not applicable	
Lower explosion limit	: 1.1 %(V)	
Upper explosion limit	: 6.7 %(V)	
Vapor pressure	: 60.9 hPa at 25 °C(77 °F)	
Vapor density	: Note: No data available	
Density	: 0.69 g/cm3 at 15 °C	
Water solubility	: 0.003 g/l at 0 °C	
	0.0024 g/l at 25 °C	
	0.0025 g/l at 40 °C	
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Solubility in other solvents	: Note: soluble	
Partition coefficient: n-octanol/water	: log Pow: 4.5	
Ignition temperature	: 204 °C	
Auto-ignition temperature	: Note: not auto-flammable	
Decomposition temperature	: Note: At normal pressure ma decomposition.	ay be distilled without
Viscosity, dynamic	: Note: No data available	
Viscosity, kinematic	: Note: No data available	
Oxidizing properties	: The substance or mixture is	not classified as oxidizing.
Molecular weight	: 100.2 g/mol	
	100.2 g/mol	
Bulk density	: Note: Not applicable	
CTION 10. STABILITY AND R	ACTIVITY	
Reactivity	: Not classified as a reactivity	hazard.
Chemical stability	: Stable under recommended	storage conditions.
Possibility of hazardous reactions	: Vapours may form explosive Hazardous polymerisation de	
Conditions to avoid	: Keep product and empty con of ignition. Keep away from direct sunlig	tainer away from heat and sources ght.
Incompatible materials	: Strong oxidizing agents	
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Hazardous decomposition products	: Fire may cause evolution of: Carbon oxides
SECTION 11. TOXICOLOGICAL	INFORMATION
Acute oral toxicity	: Note: Not classified due to data which are conclusive although insufficient for classification.
Acute inhalation toxicity	: LC50: > 29.29 mg/l Exposure time: 4 h Species: Rat Note: No deaths
Acute dermal toxicity	: Note: Not classified due to data which are conclusive although insufficient for classification.
Skin irritation	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Eye irritation	: Note: Not classified due to data which are conclusive although insufficient for classification.
Sensitisation	: Maximisation Test Species: Guinea pig Result: Does not cause skin sensitisation.
Aspiration toxicity	: May be fatal if swallowed and enters airways.
Further information	: Note: Solvent vapours have a narcotic effect if inhaled in high concentrations.
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SECTION 12	. ECOLOGICAL INFO	RMATION	
Ecotoxi	city effects		
Toxicity	to fish	: Note: Classification based on Ann 1272/2008/EC.	ex VI of regulation
	to daphnia and other invertebrates	: Note: Classification based on Ann 1272/2008/EC.	ex VI of regulation
Toxicity	to algae	: Note: Classification based on Ann 1272/2008/EC.	ex VI of regulation
Further	information on ecolo	ogy	
	DISPOSAL CONSID	ERATIONS : Observe all Federal, State, and Lo regulations.	ocal Environmental
Disposa		: Observe all Federal, State, and Lo regulations.	ocal Environmental
Disposa	I methods	: Observe all Federal, State, and Lo regulations. RMATION : UN 1206	ocal Environmental
Disposa	I methods TRANSPORT INFOR UN/ID No. Proper shipping na Class Packing group	: Observe all Federal, State, and Lorregulations. RMATION ame : UN 1206 ame : HEPTANES 3 II 3 goods : UN 1206 : HEPTANES : 3 : II : 3	ocal Environmental
Disposa	I methods TRANSPORT INFOR UN/ID No. Proper shipping na Class Packing group Hazard Labels UN/ID No. Description of the Class Packaging group Hazard Labels	: Observe all Federal, State, and Lorregulations. RMATION ame : UN 1206 ame : HEPTANES 3 II 3 goods : UN 1206 : HEPTANES : 3 : II : 3	ocal Environmental
Disposa	I methods TRANSPORT INFOR UN/ID No. Proper shipping na Class Packing group Hazard Labels UN/ID No. Description of the Class Packaging group Hazard Labels	: Observe all Federal, State, and Lorregulations. RMATION ame : UN 1206 ame : HEPTANES 3 II 3 goods : HEPTANES 2 3 II 3 n (cargo : 364	ocal Environmental

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	aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)		: 353 : Y341	
IMDG	UN/ID No. Description of the g Class Packaging group Hazard Labels EmS Number Marine pollutant		: UN 1206 bods : HEPTANES : 3 : II : 3 : F-E, S-D : yes	
SECTION 15.	REGULATORY INF	OF	RMATION	
	US. Toxic Substances Control Act		On TSCA Inventory	
Chemica	Australia. Industrial Chemical (Notification and Assessment) Act		On the inventory, or in compliance with the inventory	
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)		:	All components of this product are on the Canadian DSL	
Japan. Kashin-Hou Law List		:	On the inventory, or in compliance with the inventory	
	Korea. Existing Chemicals Inventory (KECI)		On the inventory, or in compliance with the inventory	
Chemica	es. Inventory of Is and Chemical ces (PICCS)	:	On the inventory, or in compliance with the inventory	
	ventory of Existing I Substances	:	On the inventory, or in compliance with the inventory	

New Zealand. Inventory of $\$: On the inventory, or in compliance with the inventory

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Chemicals (NZIoC), as published by ERMA New Zealand			
National regulatory inform	ation		
SARA 302 Components	: No chemicals in this materia requirements of SARA Title		
SARA 313 Components	: 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.		
SARA 311/312 Hazards	: Fire Hazard Acute Health Hazard Chronic Health Hazard		
CERCLA Reportable Quantity	: 100 lbs		
California Prop. 65	: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		
Massachusetts RTK	: Heptane	142-82-5	
New Jersey RTK	: Heptane	142-82-5	
Pennsylvania RTK	: Heptane	142-82-5	
CTION 16. OTHER INFORMA	TION		
	HMIS III NFPA		
Health hazard	: 1*		
Flammability Physical Hazard	: 3 3 : 0		
Instability	: 0		
Physical Hazard	: 0		

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* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 10/02/2016

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group

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