Honeywell

Iso-Octane

LP362-4

Version 1.0

Revision Date 02/22/2018

Print Date 02/22/2018

SECTION 1. IDENTIFICATION

Product name	:	Iso-Octane
Number	:	00000022856
Product Use Description	:	Solvent
Manufacturer or supplier's details	:	Manufactured by: Honeywell International Inc. 1953 South Harvey Street Muskegon, MI 49442 USA
		Distributed by: VWR International 2360 Argentia Road Mississauga, Ontario L5N 5Z7 CANADA
For more information call	:	1-800-932-5000
		(Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	Medical: 1-800-498-5701 or +1-303-389-1414 Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887
	:	(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form	: liquid
Color	: colourless
Odor	: slight hydrocarbon-like

Page 1 / 14

AFETY DATA SHEET	Honeywell
o-Octane	
362-4	
sion 1.0	Revision Date 02/22/2018 Print Date 02/22/
Classification of the substar	nce or mixture
Classification of the substance or mixture	 Flammable liquids, Category 2 Skin irritation, Category 2 Specific target organ toxicity - single exposure, Category 3, Central nervous system Aspiration hazard, Category 1
GHS Label elements, includi	ing precautionary statements
Symbol(s)	
Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness and dizziness.
Precautionary statements	 Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipmen Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection.
	Response: IF SWALLOWED: Immediately call a POISON CENTER/doct IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistar foam for extinction.

AFETY DATA SHEE	Т		Honeywell
o-Octane			
P362-4			
rsion 1.0	Revision Date 02/2	22/2018	Print Date 02/22/201
	Keep cool. Store locked up. Disposal:		container tightly closed. pproved waste disposal
Carcinogenicity		then an equal to 0.4	
No component of this produc anticipated carcinogen by N		than of equal to 0.1	% is identified as a known
CTION 3. COMPOSITION/IN	FORMATION ON INGREE	DIENTS	
CTION 3. COMPOSITION/IN	FORMATION ON INGREE	DIENTS	
Formula	: C8H18	DIENTS	
Formula Chemical nature	: C8H18 : Substance		
Formula	: C8H18 : Substance	DIENTS CAS-No.	Concentration
Formula Chemical nature	: C8H18 : Substance I name		Concentration 100.00 %
Formula Chemical nature Chemica	: C8H18 : Substance I name ooctane)	CAS-No.	
Formula Chemical nature Chemica 2,2,4-Trimethylpentane; (Is	: C8H18 : Substance I name ooctane) JRES : Call a physician imm breathing, give artific	CAS-No. 540-84-1 nediately. Remove to cial respiration. If bro	100.00 %
Formula Chemical nature 2,2,4-Trimethylpentane; (Is CTION 4. FIRST AID MEASU	 : C8H18 : Substance Iname ooctane) JRES : Call a physician immediate minutes. Take off comparison of the comparison	CAS-No. 540-84-1 nediately. Remove to cial respiration. If bro as required, provide ly with plenty of wate	100.00 % o fresh air. If not eathing is difficult, give ed a qualified operator is
Formula Chemical nature 2,2,4-Trimethylpentane; (Is CTION 4. FIRST AID MEASU Inhalation	 : C8H18 : Substance Iname ooctane) JRES : Call a physician immore breathing, give artificoxygen. Use oxygen present. : Wash off immediate minutes. Take off co Wash contaminated 	CAS-No. 540-84-1 bediately. Remove to cial respiration. If bro as required, provide ly with plenty of water ntaminated clothing clothing before re-u	100.00 % o fresh air. If not eathing is difficult, give ed a qualified operator is er for at least 15 and shoes immediately. use. Call a physician. also under the eyelids,
Formula Chemical nature 2,2,4-Trimethylpentane; (Is CTION 4. FIRST AID MEASU Inhalation Skin contact	 : C8H18 : Substance Iname ooctane) JRES : Call a physician immediate present. : Wash off immediate minutes. Take off co Wash contaminated : Rinse immediately w for at least 15 minute 	CAS-No. 540-84-1 nediately. Remove to cial respiration. If bro as required, provide ly with plenty of water ntaminated clothing clothing before re-u vith plenty of water, es. Call a physician.	100.00 % o fresh air. If not eathing is difficult, give ed a qualified operator is er for at least 15 and shoes immediately. ise. Call a physician. also under the eyelids, mits when lying on his

Honeywell

362-4		
sion 1.0	Revision Date 02/22/2018	Print Date 02/22/2
	immediately. Never give anything by mo person.	outh to an unconscious
Notes to physician		
Indication of immediate medical attention and special treatment needed, if necessary	: Treat symptomatically.	
CTION 5. FIREFIGHTING MEA	SURES	
Suitable extinguishing media	: Foam Carbon dioxide (CO2) Dry chemical Cool closed containers exposed to fire	with water spray.
Unsuitable extinguishing media	: Do not use a solid water stream as it m fire.	ay scatter and spread
Specific hazards during firefighting	 Extremely flammable. Vapours may form explosive mixtures of Vapours are heavier than air and may solve a vapors may travel to areas away from igniting/flashing back to vapor source. In case of fire hazardous decomposition produced such as: Carbon monoxide Carbon dioxide (CO2) 	spread along floors. work site before
Special protective equipment for firefighters	: Wear self-contained breathing apparate	us and protective suit.
CTION 6. ACCIDENTAL RELE	ASE MEASURES	
Personal precautions, protective equipment and emergency procedures	 Wear personal protective equipment. U must be kept away. Immediately evacuate personnel to safe Keep people away from and upwind of sensure adequate ventilation. Remove all sources of ignition. Do not swallow. Do not breathe vapours or spray mist. 	areas.
	Page 4 / 14	

Honeywell

Iso-Octane

362-4		
sion 1.0		Revision Date 02/22/2018 Print Date 02/22/20
		Avoid contact with skin, eyes and clothing.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses.
Methods and materials for containment and cleaning up	:	Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
TION 7. HANDLING AND ST Handling	OR	RAGE
Precautions for safe handling	:	Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.
	:	Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapours or spray mist.
handling Advice on protection against	:	Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning transfer operations. Use explosion-proof equipment. Keep product and empty container away from heat and sources of ignition. No sparking tools should be used.
handling Advice on protection against fire and explosion	:	Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning transfer operations. Use explosion-proof equipment. Keep product and empty container away from heat and sources of ignition. No sparking tools should be used.

SAFETY DATA SHEET	Honeywell		
so-Octane			
-P362-4 /ersion 1.0	Revision Date 02/22/2018 Print Date 02/22/201		
	Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat and sources of ignition. Keep away from direct sunlight. Store away from incompatible substances. Container hazardous when empty. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.		
ECTION 8. EXPOSURE CONTR Protective measures	OLS/PERSONAL PROTECTION : Ensure that eyewash stations and safety showers are close to		
	the workstation location.		
Engineering measures	: Use with local exhaust ventilation. Prevent vapour buildup by providing adequate ventilation during and after use.		
Eye protection	 Do not wear contact lenses. Wear as appropriate: Safety glasses with side-shields If splashes are likely to occur, wear: Goggles or face shield, giving complete protection to eyes 		
Hand protection	: Solvent-resistant gloves Gloves must be inspected prior to use. Replace when worn.		
Skin and body protection	: Wear as appropriate: Solvent-resistant apron Flame retardant antistatic protective clothing. If splashes are likely to occur, wear: Protective suit		
Respiratory protection	 When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. For rescue and maintenance work in storage tanks use self-contained breathing apparatus. Use NIOSH approved respiratory protection. 		
Hygiene measures	 When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product. Keep working clothes separately. Remove and wash contaminated clothing before re-use. 		
	Page 6 / 14		

Honeywell

Iso-Octane

LP362-4

Version 1.0

Revision Date 02/22/2018

Print Date 02/22/2018

Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Components	CAS-No.	Value	Control parameters	Upda te	Basis
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	TWA : Time weighted average	1,400 mg/m3 (300 ppm)	07 2009	CAD AB OEL:Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	TWA : Time weighted average	(300 ppm)	07 2007	CAD BC OEL:Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	TWA : Time weighted average	(300 ppm)	05 2013	CAD BC OEL:Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Honeywell

Iso-Octane

LP362-4

ion 1.0	ŀ	Revision Date	02/22/2018		Print Date 02/22/2
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	TWA : Time weighted average	(300 ppm)	03 2011	CAD MB OEL:Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	TWA : Time weighted average	(300 ppm)	03 2012	CAD MB OEL:Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	TWA : Time weighted average	(300 ppm)	11 2010	CAD ON OEL:Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	8 HR ACL : 8 hour average contamin ation limit:	(300 ppm)	05 2009	CAD SK OEL:Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	15 MIN ACL : 15 minute average contamin ation limit:	(375 ppm)	05 2009	CAD SK OEL:Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Honeywell

Iso-Octane

LP362-4

362-4						
sion 1.0	Re	Revision Date 02/22/2018			Print Date 02/22/2	
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	STEL : Short term exposure limit	1,750 mg/m3 (375 ppm)	12 2008	OEL (QUE):Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)	
2,2,4-Trimethylpe ntane; (Isooctane)	540-84-1	TWA : Time weighted average	1,400 mg/m3 (300 ppm)	12 2008	OEL (QUE):Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)	
Physical state Color	: liqu : col	uid ourless				
Odor	: slig	ht hydrocarl	oon-like			
Odor threshold	: No	te: no data a	vailable			
рН	: No	te: Not appli	cable			
Melting point/range	: -10	07.4 °C				
Boiling point/boiling rang	ge : 99	.24 °C				
Flash point		°F (-8 °C) thod: closed	cup			
Evaporation rate	: No	te: no data a	vailable			

Honeywell

Iso-Octane

reactions

Conditions to avoid

LP362-4		
Version 1.0	Revision Date 02/22/2018	Print Date 02/22/2018
Lower explosion limit	: 1 %(V)	
Upper explosion limit	: 7 %(V)	
Vapor pressure	: 54.66 hPa at 20 °C(68 °F)	
Vapor density	: 3.9 Note: (Air = 1.0)	
Density	: 0.69 g/cm3 at 20 °C	
Water solubility	: 0.002 g/l at 25 °C	
Partition coefficient: n-octanol/water	: Note: no data available	
Ignition temperature	: 411 °C	
Decomposition temperature	: Note: no data available	
Viscosity, dynamic	: Note: no data available	
Viscosity, kinematic	: Note: no data available	
Molecular weight	: 114.23 g/mol	
SECTION 10. STABILITY AND R	EACTIVITY	
Chemical stability	: Stable under recommended storage co	onditions.
Possibility of hazardous	: Hazardous polymerization does not oc	cur.

Page 10 / 14

: Heat, flames and sparks.

SAFETY DATA SHEET		Honeywell
so-Octane		
P362-4		
ersion 1.0	Revision Date 02/22/2018	Print Date 02/22/2018
	Keep away from direct sunlight.	
Incompatible materials	: Strong oxidizing agents	
	Strong acids Strong bases	
	Reducing agents	
Hazardous decomposition	: In case of fire hazardous decompose	sition products may be
products	produced such as: Carbon monoxide	
	Carbon dioxide (CO2)	
ECTION 11. TOXICOLOGICAL	INFORMATION	
Acute oral toxicity	: LD50: > 5,000 mg/kg	
Addie orar toxicity	Species: Rat	
	Note: No deaths	
Acute inhalation toxicity	: LC50: 33.52 mg/l , vapour	
	Exposure time: 4 h Species: Rat	
	Method: OECD Test Guideline 403	
Acute dermal toxicity	: LD50: > 2,000 mg/kg	
Addie definal texicity	Species: Rabbit	
	Method: OECD Test Guideline 402 Note: No deaths	
Skin irritation	: Species: Rabbit Result: Irritating to skin.	
	Ŭ	
Eye irritation	: Species: Rabbit	
Eye irritation	: Species: Rabbit Result: slight irritation	
Eye irritation		
	Result: slight irritation	
Eye irritation	Result: slight irritation	

SAFETY	DATA SHEET	Honeywell
so-Octar	le	
_P362-4		
/ersion 1.0		Revision Date 02/22/2018 Print Date 02/22/2018
	nformation on ecology	
Additiona informatio	on N V	bioaccumulation is unlikely. lot inherently biodegradable. 'ery toxic to aquatic organisms, may cause long-term adverse ffects in the aquatic environment.
	DISPOSAL CONSIDERA	
Disposal		bserve all Federal, State, and Local Environmental egulations.
SECTION 14. TDG IATA	TRANSPORT INFORMAT	: UN 1262 : OCTANES 3 II 3 : UN 1262 : OCTANES : 3 : II : 3
	aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: 353 : Y341
IMDG	UN/ID No. Description of the goods Class Packaging group Hazard Labels EmS Number Marine pollutant	: UN 1262 S : OCTANES : 3 : II : 3 : F-E, S-E : yes
		Page 12 / 14
		· ·

Honeywell

Iso-Octane

LP362-4

Version 1.0

Revision Date 02/22/2018

Print Date 02/22/2018

SECTION 15. REGULATORY INFORMATION

Inventories

	US. Toxic Substances Control Act	:	On TSCA Inventory		
	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		
	Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	On the inventory, or in compliance with the inventory		
	China. Inventory of Existing Chemical Substances	:	On the inventory, or in compliance with the inventory		
	New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance with the inventory		
National regulatory information					
	US. EPA CERCLA Hazardous Substances (40 CFR 302)	:	The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):		
		:	Reportable quantity: 1000 lbs 2,2,4-Trimethylpentane; 540-84-1 (Isooctane)		
Page 13 / 14					

Honeywell SAFETY DATA SHEET **Iso-Octane** LP362-4 Version 1.0 Revision Date 02/22/2018 Print Date 02/22/2018 WHMIS : 2,2,4-Trimethylpentane; 540-84-1 Components (Isooctane) NPRI Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI. **SECTION 16. OTHER INFORMATION** HMIS III NFPA Health hazard : 1 1 : 3 Flammability 3 Physical Hazard : 0 Instability 0 : 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. Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group Page 14 / 14