

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 02/10/2017 Supersedes:07/27/2015

Version: 1.2

	511 date: 02/10	2011 Odpo1000000	01/21/2010	
SECTION 1: Identification of the su	ubstance	mixture and of the company	/undertaking]
1.1. Product identifier				
Product form	: Mixtu	re		
Trade name	: JOHN	ISEN'S OCTANE BOOST 12 FL.OZ.		
Product code	: 4688			
1.2. Relevant identified uses of the su	bstance or	mixture and uses advised against		
Use of the substance/mixture	: Octar	e Enhancer		
1.3. Details of the supplier of the safe	tv data shee	st		
Technical Chemical Company	ly unit offor			
P.O. BOX 139				
Cleburne, Texas 76033 T 817-645-6088				
1.4. Emergency telephone number	<u></u>			
Emergency number	: CHEM	/ITREC 24 Hour 1-800-424-9300, 1-70)3-527-3887 (Int	ernational)
SECTION 2: Hazards identification				
2.1. Classification of the substance of	r mixture			
GHS-US classification				
Flam. Liq. 4 H227				
Asp. Tox. 1 H304				
Full text of H statements : see section 16				
2.2. Label elements				
GHS-US labeling				
Hazard pictograms (GHS-US)	:	^		
	(GHS08		
Signal word (GHS-US)	: Dang	er		
Hazard statements (GHS-US)		- Combustible liquid		
		- May be fatal if swallowed and enters		
Precautionary statements (GHS-US)		- Keep away from all iginition sources		ation food protoction
		 Wear protective gloves, protective cle +P310 - If swallowed: Immediately cal 		
		- Do NOT induce vomiting	·	
		+P378 - In case of fire: See Section 5. +P235 - Store in a well-ventilated plac		Media
		- Store locked up	e. Neep cool	
		- Dispose of contents/container to app		disposal facility, in accordance with
2.2 Other benerde	iocal,	regional, national, international regula	uons.	
2.3. Other hazards	. Na	under normal conditions		
Other hazards not contributing to the classification	. None	under normal conditions.		
2.4. Unknown acute toxicity (GHS US)				
No data available				
SECTION 3: Composition/Informat	ion <u>on in</u>	gredients		
3.1. Substance				
Not applicable				
3.2. Mixture				
Name		Product identifier	%	GHS-US classification
Distillates (Petroleum), Hydrotreated Light		(CAS No) 64742-47-8	>= 95	Asp. Tox. 1, H304

Name	Product identifier	%	GHS-US classification
Distillates (Petroleum), Hydrotreated Light	(CAS No) 64742-47-8	>= 95	Asp. Tox. 1, H304
2-Methoxy-2-Methylpropane	(CAS No) 1634-04-4	1 - 5	Flam. Liq. 2, H225 Skin Irrit. 2, H315

The exact percentage is a trade secret.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Respiratory arrest: artificial respiration or oxygen. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)
First-aid measures after inhalation	: Remove the victim into fresh air. If you feel unwell, seek medical advice. Allow victim to brea fresh air. Allow the victim to rest.
First-aid measures after skin contact	Wash contaminated clothing before reuse. If skin irritation occurs: seek medical attention. Remove affected clothing and wash all exposed skin area with mild soap and water, follower by warm water rinse.
First-aid measures after eye contact	 Get medical advice/attention. Immediately flush eyes thoroughly with water for at least 15 minutes. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician
4.2. Most important symptoms and ef	ects, both acute and delayed
Symptoms/injuries	: If you feel unwell, seek medical advice.
Symptoms/injuries after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	: May cause slight irritation . May cause moderate irritation. Itching. Red skin. Skin rash/inflammation.
Symptoms/injuries after eye contact	: May cause slight eye irritation . May cause severe irritation. Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.
4.3. Indication of any immediate medi	al attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the Fire hazard	
	: Combustible liquid.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	: On heating: release of harmful/irritant gases/vapours.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Eliminate ignition sources. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Use protective clothing. Ventilate area. Remove ignition sources. Use special care to avoid static electric charges. No open flames. smoking.
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Safety glasses.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. No	ify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain For containment	nent and cleaning up : Dam up the liquid spill. Contain released substance, pump into suitable containers. Plug the
	leak, cut off the supply. : Absorbed substance: shovel into drums. Cover spill with inert material, e.g.: sand, earth,
Methods for cleaning up	

See Heading 8. Exposure controls and personal protection.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable. Keep away from heat,sparks,open flames,hot surfaces No smoking.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking.
Handling temperature	: Do not heat or store at temperature above 120 F
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash affected areas thoroughly after handling. Always wash hands after handling the product. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Comply with applicable regulations. Provide local exhaust or general room ventilation. Take precautionary measures against static discharge.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Keep in fireproof place.
Incompatible products	: Oxidizing agent. Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.

Specific end use(s) 7.3.

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

2-Methoxy-2-Methylpropane		
USA ACGIH	ACGIH TWA (ppm)	50 ppm (Methyl-tert butyl ether (MTBE); USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value)
Distillates (Petroleum), Hydro	otreated Light (64742-47-8)	
USA ACGIH	ACGIH TWA (ppm)	200 ppm 8 Hours
8.2. Exposure controls		
Appropriate engineering controls	: Provide adequate general and local e station. Local exhaust venilation, ven	exhaust ventilation. Ensure good ventilation of the work thoods.
Personal protective equipment	: Gloves. Safety glasses. Avoid all unr	necessary exposure.
Materials for protective clothing	: GIVE EXCELLENT RESISTANCE:	
Hand protection	: Wear protective gloves.	
Eye protection	: Face shield. Chemical goggles or sat	fety glasses.
Skin and body protection	: Protective clothing.	
Respiratory protection	: Wear gas mask if concentration in ail type. Wear respiratory protection.	r > exposure limit. Respiratory protection of the dependen
Environmental exposure controls	: Avoid release to the environment.	
	: Avoid contact during pregnancy/while	e nursing.
Consumer exposure controls		

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Liquid.
Color	: Colourless to light yellow.
Odor	: Ethereal. Strong odour.
Odor threshold	: No data available
рН	: N/A
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	-
Freezing point	: No data available
Boiling point	: >240 °C
Flash point	: 55 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: N/A
Relative vapor density at 20 °C	: No data available
Relative density	: 0.798
Solubility	: Poorly soluble in water. Water: < 2 % Slight
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 1.7 cSt @ 40 deg C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: 0.7 - 6 vol % Estimated
9.2. Other information	

VOC content

: 2.5 %

SECTION 10: Stability and reactivity

10.1. Reactivity

On heating: release of harmful/irritant gases/vapours.

10.2. **Chemical stability**

Stable under recommended handling and storage conditions (see section 7). Combustible liquid. May form flammable/explosive vapor-air mixture.

Possibility of hazardous reactions 10.3.

May react violently with oxidants. Not established.

10.4. **Conditions to avoid**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. **Incompatible materials**

Oxidizing agent. Strong acids. Strong bases.

Hazardous decomposition products 10.6.

Toxic fume. . Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity	: Not classified
JOHNSEN'S OCTANE BOOST 12 FL.OZ.	
LC50 inhalation rat (ppm)	23576 ppm/4h Methlyl tert-butyl ether (MTBE)
2-Methoxy-2-Methylpropane (1634-04-4)	
LD50 oral rat	4000 mg/kg (Rat)
LD50 dermal rat	> 6800 mg/kg (Rat)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	23576 ppm/4h (Rat)
Distillates (Petroleum), Hydrotreated Light (64	1742-47-8)
LD50 oral rat	> 5000 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.28 mg/l/4h Based on lack of mortality and systemic effects
Skin corrosion/irritation	: Not classified
	pH: N/A
Serious eye damage/irritation	: Not classified
	pH: N/A

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Respiratory or skin sensitization	Not classified	
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
2-Methoxy-2-Methylpropane (1634-04-4)		
IARC group	3	
Reproductive toxicity	Not classified	
Specific target organ toxicity (single exposure)	Not classified	
Specific target organ toxicity (repeated exposure)	Not classified	
Aspiration hazard	May be fatal if swallowed and enters airways.	
Potential Adverse human health effects and symptoms	Based on available data, the classification criteria are not met.	
Symptoms/injuries after inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Symptoms/injuries after skin contact	May cause slight irritation . May cause moderate irritation. Itching. Red skin. Skin rash/inflammation.	
Symptoms/injuries after eye contact	May cause slight eye irritation . May cause severe irritation. Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue.	
Symptoms/injuries after ingestion	May be fatal if swallowed and enters airways.	

SECTION 12: Ecological information

12.1. Toxicity

,	
2-Methoxy-2-Methylpropane (1634-04-4)	
LC50 fish 1	672 - 706 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 1	651 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
12.2. Persistence and degradability	
JOHNSEN'S OCTANE BOOST 12 FL.OZ.	
Persistence and degradability	Not established.
2-Methoxy-2-Methylpropane (1634-04-4)	
Persistence and degradability	Not readily biodegradable in water.
Distillates (Petroleum), Hydrotreated Light	(64742-47-8)
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
JOHNSEN'S OCTANE BOOST 12 FL.OZ.	
Bioaccumulative potential	Not established.
2-Methoxy-2-Methylpropane (1634-04-4)	
BCF fish 1	1.5 (BCF; 672 h)
Log Pow	1.06 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Distillates (Petroleum), Hydrotreated Light	(64742-47-8)
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
2-Methoxy-2-Methylpropane (1634-04-4)	
Surface tension	0.020 N/m (20 °C)
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Wasta diapagal recommandations	· Dianaga in a acta mannar in accordance with local/patienal regulations. Dianaga of

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information

	DR / RID / IMDG / IATA / ADN
US DOT (ground):	UN1993, Flammable liquids, n.o.s. (Petroleum Distillates, MTBE), 3, III, Limited Quantity
ICAO/IATA (air):	UN1993, Flammable liquids, n.o.s. (Petroleum Distillates, MTBE), 3, III, Limited Quantity
IMO/IMDG (water):	UN1993, Flammable liquids, n.o.s. (Petroleum Distillates, MTBE)(55 deg C c.c.), 3 , III, Limited Quantity
Special Provisions:	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672) T4 - 2.65 178.274(d)(2) Normal
14.2. UN proper	shipping name

14.2. UN proper shipping name				
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s. (Petroleum Distillates, MTBE)			
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120			
Hazard labels (DOT)	: 3 - Flammable liquid			
DOT Symbols	: G - Identifies PSN requiring a technical name			
Packing group (DOT)	: III - Minor Danger			
DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672) T4 - 2.65 178.274(d)(2) Normal			
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150			
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203			
DOT Packaging Bulk (49 CFR 173.xxx)	: 242			
14.3. Additional information				
Other information	: No supplementary information available.			
Overland transport No additional information available Transport by sea				
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel			

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)

SECTION 15: Regulatory information		
15.1. US Federal regulations		
JOHNSEN'S OCTANE BOOST 12 FL.OZ.		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard	
2-Methoxy-2-Methylpropane (1634-04-4)		
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard	
Distillates (Petroleum), Hydrotreated Light (64742-47-8)		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard	

15.2. International regulations

CANADA

JOHNSEN'S OCTANE BOOST 12 FL.OZ.			
S Classification Class B Division 2 - Flammable Liquid			
Distillates (Petroleum), Hydrotreated Light (64742-47-8)			
Listed on the Canadian DSL (Domestic Substances List)			
Uncontrolled product according to WHMIS classification criteria			

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

R10

Full text of R-phrases: see section 16

15.2.2. National regulations

No additional information available

15.3. US State regulations

JOHNSEN'S OCTANE E	BOOST 12 FL.OZ.				
U.S California - Proposition 65 - Carcinogens List		No			
U.S California - Proposition 65 - Developmental Toxicity		No			
U.S California - Proposition 65 - Reproductive Toxicity - Female		No			
U.S California - Proposition 65 - Reproductive Toxicity - Male		No			
2-Methoxy-2-Methylpro	pane (1634-04-4)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)	
No	No	No	No		
Distillates (Petroleum),	Hydrotreated Light (64742-47-	-8)		<u>.</u>	
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)	
No	No	No	No		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 16: Other information			
Other information	: None.		
Full text of H-phrases:			
H225	Highly flammable liquid and vapor		
H227	Combustible liquid		
H304	May be fatal if swallowed and enters airways		
H315	Causes skin irritation		
NFPA health hazard NFPA fire hazard NFPA reactivity	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 		
HMIS III Rating			
Health	: 2 Moderate Hazard - Temporary or minor injury may occur		
Flammability	: 2 Moderate Hazard		
Physical	: 0 Minimal Hazard		
Personal Protection	: B		

SDS US (GHS HazCom 2012) - TCC

The Supplier identified in Section 1 of this SDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.