According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

 Version 16.0
 Revision Date: 05/22/2015
 Print Date: 05/27/2015

: VM&P Naphtha HT

SECTION 1. IDENTIFICATION

Product name

	-	
Product code	:	Q6002
Manufacturer or supplier's d	eta	ils
Company	:	Shell Chemical LP PO Box 2463 HOUSTON TX 77252-2463 USA
SDS Request	:	1-800-240-6737
Customer Service	:	1-855-697-4355
Emergency telephone number Chemtrec Domestic (24 hr) Chemtrec International (24 hr)	:	

Recommended use of the chemical and restrictions on use

Recommended use	: Indu	ustrial Solvent.
Restrictions on use		s product must not be used in applications other than the ve without first seeking the advice of the supplier.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification	
Flammable liquids	: Category 2
Aspiration hazard	: Category 1
Skin irritation	: Category 2
Specific target organ toxicity - single exposure	: Category 3 (Narcotic effects)
Reproductive toxicity	: Category 2
Specific target organ toxicity - repeated exposure	: Category 2 (Central nervous system, Peripheral nervous system)
Chronic aquatic toxicity	: Category 2
GHS Label element Hazard pictograms	

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Signal word	: Danger
Hazard statements	 PHYSICAL HAZARDS: H225 Highly flammable liquid and vapour. HEALTH HAZARDS: H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. ENVIRONMENTAL HAZARDS: H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P273 Avoid release to the environment. Response: P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P370+P378 In case of fire: Use appropriate media for extinction. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/ physician if you feel unwell. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. P331 Do NOT induce vomiting. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P304 + P340 IF induce vomiting. P305 + P355 Store in a well-ventilated place. Keep cool. P405 Store locked up. Disposal: P501 Dispose of contents and container to appropriate wasta

P501 Dispose of contents and container to appropriate waste

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site or reclaimer in accordance with local and national regulations.

Other hazards which do not result in classification

May form flammable/explosive vapour-air mixture.

This material is a static accumulator.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.

If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable airvapour mixtures can occur.

Vapours may be irritating to the eye.

Repeated exposure may cause skin dryness or cracking

The classification of this material is based on OSHA HCS 2012 criteria.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

Chemical Name	Synonyms	CAS-No.	Concentration (%)
Solvent naphtha (petro- leum), light aliph.	Solvent naphtha (petroleum), light	64742-89-8	< 100
	aliph.		

Further information

Contains:

001111113.		
Chemical Name	Identification number	Concentration [%]
n-octane	111-65-9, 203-892-1	>= 1 - <= 5
Heptane	142-82-5, 205-563-8	>= 1 - <= 5

SECTION 4. FIRST-AID MEASURES

General advice	: DO NOT DELAY. Keep victim calm. Obtain medical treatment immediately.
If inhaled	: Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
In case of skin contact	: Remove contaminated clothing. Flush exposed area with wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
In case of eye contact	: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
If swallowed	: If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath,

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	chest congestion or continued of	coughing or wheezing.
Most important symptoms and effects, both acute and delayed	 Breathing of high vapour conce nervous system (CNS) depress headedness, headache, nausea Continued inhalation may result death. Peripheral nerve damage may I motor function (incoordination, of weakness in the extremities, an arms and legs). 	sion resulting in dizziness, light- a and loss of coordination. t in unconsciousness and be evidenced by impairment of unsteady walk, or muscle
	Respiratory irritation signs and porary burning sensation of the and/or difficulty breathing. Skin irritation signs and sympto sation, redness, swelling, and/o Defatting dermatitis signs and s ing sensation and/or a dried/cra Eye irritation signs and symptor sation, redness, swelling, and/o If material enters lungs, signs a coughing, choking, wheezing, d congestion, shortness of breath	nose and throat, coughing, ms may include a burning sen- or blisters. symptoms may include a burn- acked appearance. ms may include a burning sen- or blurred vision. and symptoms may include difficulty in breathing, chest
Protection of first-aiders	: When administering first aid, en appropriate personal protective incident, injury and surrounding	equipment according to the
Immediate medical attention, special treatment	: Potential for chemical pneumon Consult a Poison Control Centre	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Foam, water spray or fog. Dry chemical powder, carbon xide, sand or earth may be used for small fires only.	dio-
Unsuitable extinguishing media	Do not use water in a jet.	
Specific hazards during fire- fighting	Clear fire area of all non-emergency personnel. Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulate gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Flammable vapours may be present even at temperature below the flash point. The vapour is heavier than air, spreads along the ground distant ignition is possible. Will float and can be reignited on surface water.	es
Specific extinguishing me- thods	Standard procedure for chemical fires.	

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Further information Special protective equipment	:	Keep adjacent containers cool by	(spraving with water
			y spraying with water.
for firefighters	:	Proper protective equipment incl gloves are to be worn; chemical large contact with spilled product Breathing Apparatus must be wo a confined space. Select fire figh relevant Standards (e.g. Europe	resistant suit is indicated if is expected. Self-Contained rn when approaching a fire i ter's clothing approved to
TION 6. ACCIDENTAL RELEA	ASE	MEASURES	
Personal precautions, protec- tive equipment and emer- gency procedures	:	Observe all relevant local and int Notify authorities if any exposure environment occurs or is likely to Local authorities should be advis cannot be contained.	to the general public or the occur.
	:	Avoid contact with skin, eyes and Isolate hazard area and deny en- tected personnel. Do not breathe fumes, vapour. Do not operate electrical equipm	try to unnecessary or unpro-
Environmental precautions	:	Shut off leaks, if possible without possible sources of ignition in the propriate containment to avoid en Prevent from spreading or enteri using sand, earth, or other appro- disperse the vapour or to direct in example by using fog sprays. Ta against static discharge. Ensure ing and grounding (earthing) all en Monitor area with combustible ga	e surrounding area. Use ap- nvironmental contamination. ng drains, ditches or rivers b priate barriers. Attempt to ts flow to a safe location for ke precautionary measures electrical continuity by bond equipment.
Methods and materials for containment and cleaning up	:	For small liquid spills (< 1 drum), means to a labeled, sealable cor safe disposal. Allow residues to a appropriate absorbent material a contaminated soil and dispose of For large liquid spills (> 1 drum), means such as vacuum truck to safe disposal. Do not flush away as contaminated waste. Allow re- up with an appropriate absorbent safely. Remove contaminated so	ntainer for product recovery of evaporate or soak up with an nd dispose of safely Remove f safely. transfer by mechanical a salvage tank for recovery of residues with water. Retain sidues to evaporate or soak t material and dispose of
		Ventilate contaminated area thor If contamination of site occurs re cialist advice.	

Additional advice

: For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet.

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Version 16.0 Revision Date: 05/22/2015 Print Date: 05/27/2015 For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet. U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity (refer to Chapter 15) to the National Response Center at (800) 424-8802.			
this Safety Data Sheet. U.S. regulations may require reporting releases of this mater al to the environment which exceed the reportable quantity (refer to Chapter 15) to the National Response Center at	Version 16.0	Revision Date: 05/22/2015	Print Date: 05/27/2015
Under Section 311 of the Clean Water Act (CWA) this materi is considered an oil. As such, spills into surface waters must be reported to the National Response Center at (800) 424- 8802. This material is covered by EPA's Comprehensive Environ- mental Response, Compensation and Liability Act (CERCLA Petroleum Exclusion. Therefore, releases to the environment	Version 16.0	For guidance on disposal of spill this Safety Data Sheet. U.S. regulations may require rep al to the environment which exce (refer to Chapter 15) to the Natio (800) 424-8802. Under Section 311 of the Clean is considered an oil. As such, sp be reported to the National Resp 8802. This material is covered by EPA' mental Response, Compensation	ed material see Chapter 13 of porting releases of this materi- eed the reportable quantity onal Response Center at Water Act (CWA) this material pills into surface waters must ponse Center at (800) 424- 's Comprehensive Environ- n and Liability Act (CERCLA)

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. Use the information in this data sheet as input to a risk as- sessment of local circumstances to help determine appropri- ate controls for safe handling, storage and disposal of this material. Ensure that all local regulations regarding handling and sto- rage facilities are followed.
Precautions for safe handling	:	Avoid inhaling vapour and/or mists. Avoid contact with skin, eyes and clothing. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Bulk storage tanks should be diked (bunded). When using do not eat or drink. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
Avoidance of contact	:	Strong oxidising agents.
Product Transfer	:	Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is al- lowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Be aware of han- dling operations that may give rise to additional hazards that result from the accumulation of static charges. These include but are not limited to pumping (especially turbulent flow), mix- ing, filtering, splash filling, cleaning and filling of tanks and containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line ve- locity during pumping in order to avoid generation of electros-

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	tatic discharge (≤ 1 m/s until fill diameter, then ≤ 7 m/s). Avoid compressed air for filling, disch	splash filling. Do NOT use
	Refer to guidance under Handl	ing section.
Storage Conditions for safe storage, including any incompatibili- ties Other data	 Refer to section 15 for any add ering the packaging and storag Storage Temperature: Ambient. Bulk storage tanks should be d 	iked (bunded).
	Locate tanks away from heat a Cleaning, inspection and maint specialist operation, which requ strict procedures and precautio Must be stored in a diked (bund from sunlight, ignition sources a Keep away from aerosols, flam rosives and from other flammal harmful or toxic to man or to the Electrostatic charges will be ge Electrostatic discharge may can tinuity by bonding and groundir reduce the risk. The vapours in the head space in the flammable/explosive rang ble.	tenance of storage tanks is a uires the implementation of ons. ded) well- ventilated area, away and other sources of heat. imables, oxidizing agents, cor- ble products which are not e environment. enerated during pumping. use fire. Ensure electrical con- ng (earthing) all equipment to e of the storage vessel may lie
Packaging material	: Suitable material: For container steel, stainless steel., For conta zinc silicate paint. Unsuitable material: Avoid profe butyl or nitrile rubbers.	ainer paints, use epoxy paint,
Container Advice	: Do not cut, drill, grind, weld or prear containers.	perform similar operations on or
Specific use(s)	: Not applicable	
	See additional references that for liquids that are determined to American Petroleum Institute 2 tions Arising out of Static, Light National Fire Protection Agence on Static Electricity). CENELEC CLC/TR 50404 (Ele for the avoidance of hazards do	003 (Protection Against Igni- tning and Stray Currents) or y 77 (Recommended Practices ectrostatics – Code of practice

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

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Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Solvent naphtha (petroleum), light aliph.	64742-89-8	TŴA	500 ppm 2,000 mg/m3	OSHA Z-1
n-octane	111-65-9	TWA	500 ppm 2,350 mg/m3	OSHA Z-1
		TWA	300 ppm	ACGIH
Heptane	142-82-5	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

Engineering measures	 The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Use sealed systems as far as possible. Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Local exhaust ventilation is recommended. Firewater monitors and deluge systems are recommended. Eye washes and showers for emergency use. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
	General Information: Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard con- taminated clothing and footwear that cannot be cleaned. Practice good housekeeping. Define procedures for safe handling and maintenance of controls.

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	Educate and train workers in the l ures relevant to normal activities a Ensure appropriate selection, test equipment used to control exposu equipment, local exhaust ventilati Drain down system prior to equip ance. Retain drain downs in sealed stor subsequent recycle.	associated with this product. ting and maintenance of ure, e.g. personal protective on. ment break-in or mainten-
Personal protective equipme	nt	
Respiratory protection	 If engineering controls do not main tions to a level which is adequate select respiratory protection equip cific conditions of use and meetin Check with respiratory protective Where air-filtering respirators are concentrations are high, risk of ox space) use appropriate positive p tus. Where air-filtering respirators are priate combination of mask and fil If air-filtering respirators are suital Select a filter suitable for organic boiling point >65°C (149°F)]. 	to protect worker health, oment suitable for the spe- g relevant legislation. equipment suppliers. unsuitable (e.g. airborne kygen deficiency, confined ressure breathing appara- suitable, select an appro- lter. ble for conditions of use: gases and vapours [Type A
	Respirator selection, use and mai cordance with the requirements o Protection Standard, 29 CFR 191	f the OSHA Respiratory
Hand protection Remarks	: Where hand contact with the proc gloves approved to relevant stand US: F739) made from the followin suitable chemical protection. Long rubber gloves. Incidental contact/ neoprene rubber gloves For conti mend gloves with breakthrough tin nutes with preference for > 480 m gloves can be identified. For shor recommend the same, but recogn offering this level of protection mat this case a lower breakthrough tin long as appropriate maintenance are followed. Glove thickness is n resistance to a chemical as it is d composition of the glove material. typically greater than 0.35 mm de and model. Suitability and durabil on usage, e.g. frequency and dur- resistance of glove material, dexter from glove suppliers. Contaminate placed. Personal hygiene is a key care. Gloves must only be worn o gloves, hands should be washed	dards (e.g. Europe: EN374, ng materials may provide ger term protection: Nitrile Splash protection: PVC or nuous contact we recom- me of more than 240 mi- ninutes where suitable t-term/splash protection we nize that suitable gloves ay not be available and in me maybe acceptable so and replacement regimes not a good predictor of glove ependent on the exact . Glove thickness should be pending on the glove make ity of a glove is dependent ation of contact, chemical erity. Always seek advice ed gloves should be re- y element of effective hand on clean hands. After using

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	cation of a non-perfumed moistu	rizer is recommended.
Eye protection	: If material is handled such that in protective eyewear is recommer	
Skin and body protection	: Wear chemical resistant gloves/ risk of splashing, also wear an a Wear antistatic and flame retard assessment deems it so.	ipron.
Protective measures	: Personal protective equipment (mended national standards. Che	
Hygiene measures	 Wash hands before eating, drink toilet. Launder contaminated clothing k Do not ingest. If swallowed then assistance. 	before re-use.
Environmental exposure co	ontrols	
General advice	 Local guidelines on emission lim must be observed for the discha vapour. Minimise release to the environr sessment must be made to ensu ronmental legislation. Information on accidental releas section 6. 	rge of exhaust air containing nent. An environmental as- ure compliance with local envi-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid.
Colour	: Light coloured
Odour	: Hydrocarbon
Odour Threshold	: Data not available
рН	: Not applicable
Melting point/freezing point	: Data not available
Boiling point/boiling range	: 118 - 150 °C / 244 - 302 °F
Flash point	: 14 - 18 °C / 57 - 64 °F Method: Tagliabue Closed Cup
Evaporation rate	: 1.0 Method: ASTM D 3539, nBuAc=1
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: 7.0 %(V)

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Lower explosion limit	: 0.9 %(V)	
Vapour pressure	: 1.5 - 2 kPa (20 °C / 68 °F)	
Relative vapour density	: 4.1	
Relative density	: 0.74 - 0.76 (15.6 °C / 60.1 °F)	
Density	: Data not available	
Solubility(ies) Water solubility	: 0.05 g/l negligible	
Partition coefficient: n- octanol/water	: Data not available	
Auto-ignition temperature	: 320 °C / 608 °F	
Decomposition temperature	: Data not available	
Viscosity Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: Data not available	
Explosive properties	: Not applicable	
Oxidizing properties	: Data not available	
Surface tension	: Data not available	
Conductivity	: Low conductivity: < 100 pS/m, The makes it a static accumulator., A li nonconductive if its conductivity is considered semi-conductive if its o pS/m., Whether a liquid is noncon the precautions are the same., A r ple liquid temperature, presence o static additives can greatly influen uid	iquid is typically considered below 100 pS/m and is conductivity is below 10 000 ductive or semiconductive, number of factors, for exam- of contaminants, and anti-
Molecular weight	: Data not available	

SECTION 10. STABILITY AND REACTIVITY

	Reactivity	:	The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
	Chemical stability	:	No hazardous reaction is expected when handled and stored according to provisions Stable under normal conditions of use.
	Possibility of hazardous reac- tions	:	Reacts with strong oxidising agents.
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Conditions to avoid	: Avoid heat, sparks, open flame	s and other ignition sources.
	In certain circumstances product tricity.	ct can ignite due to static elec-
Incompatible materials	: Strong oxidising agents.	
Hazardous decomposition products	: Hazardous decomposition prod during normal storage. Thermal decomposition is highl complex mixture of airborne sol ing carbon monoxide, carbon d unidentified organic compounds material undergoes combustion dation.	y dependent on conditions. A lids, liquids and gases includ- ioxide, sulphur oxides and s will be evolved when this

SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	:	Information given is based on product testing, and/or similar
		products, and/or components.

Information on likely routes of exposure

Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

Acute toxicity

Product:

Acute oral toxicity	:	LD 50 (Rat): > 5.000 mg/kg Remarks: Low toxicity:
Acute inhalation toxicity	:	LC 50 (Rat): > 20 mg/l Remarks: Low toxicity by inhalation.
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg Remarks: Low toxicity:

Skin corrosion/irritation

Product:

Remarks: Causes skin irritation., Repeated exposure may cause skin dryness or cracking

Serious eye damage/eye irritation

Product:

Remarks: Not irritating to eye., Vapours may be irritating to the eye.

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a sensitiser.

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Print Date: 05/27/2015 Version 16.0 Revision Date: 05/22/2015 Germ cell mutagenicity Product: : Remarks: Not mutagenic. Carcinogenicity Product: Remarks: Not expected to be carcinogenic., Tumours produced in animals are not considered relevant to humans. IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. **OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. Reproductive toxicity **Product:** Remarks: Suspected of damaging fertility or the unborn child., Causes foetotoxicity in animals at doses which are maternally toxic., Affects reproductive system in animals at doses which produce other toxic effects.

STOT - single exposure

Product:

Remarks: May cause drowsiness and dizziness.

STOT - repeated exposure

Product:

Remarks: Central nervous system: repeated exposure affects the nervous system., Peripheral nervous system: causes peripheral neuropathy which can be potentiated by ketones., Kidney: caused kidney effects in male rats which are not considered relevant to humans

Aspiration toxicity

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Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Further information

Product:

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

SECTION 12. ECOLOGICAL INFORMATION

/	19		800001014914
	Product: Mobility	:	Remarks: Floats on water.
	Mobility in soil		
	Product: Bioaccumulation	:	Remarks: Has the potential to bioaccumulate.
	Bioaccumulative potential		
	<u>Product:</u> Biodegradability	:	Remarks: Expected to be readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.
	Persistence and degradability		
	Toxicity to bacteria (Acute toxicity)	:	Remarks: Data not available
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Data not available
	Toxicity to fish (Chronic toxic- ity)	:	Remarks: Data not available
	Toxicity to algae (Acute toxic- ity)	:	Remarks: Expected to be harmful: LC/EC/IC50 >10 - <=100 mg/I
	Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	:	Remarks: Expected to be toxic: LL/EL/IL50 > 1 <= 10 mg/I
	Product: Toxicity to fish (Acute toxic- ity)	:	Remarks: Data not available
	Ecotoxicity		
	Basis for assessment	:	Incomplete ecotoxicological data are available for this product. The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.

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Revision Date: 05/22/2015 Print Date: 05/27/2015 Version 16.0 If it enters soil, it will adsorb to soil particles and will not be mobile. Other adverse effects no data available Product: Additional ecological informa- : Not expected to have ozone depletion potential. tion SECTION 13. DISPOSAL CONSIDERATIONS **Disposal methods** Waste from residues : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses Waste product should not be allowed to contaminate soil or water. Contaminated packaging : Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer. Comply with any local recovery or waste disposal regulations. Local legislation : Disposal should be in accordance with applicable regional, Remarks

national, and local laws and regulations.

tional requirements and must be complied with.

Local regulations may be more stringent than regional or na-

SECTION 14. TRANSPORT INFORMATION

National Regulations

US Department of Transportation Classification (49 CFR Parts 171-180)						
UN/ID/NA number	: UN 1268					
Proper shipping name	: Petroleum distillates, n.o.s.					
Class	: 3					
Packing group	: 11					
Labels	: 3					
ERG Code	: 128					
Marine pollutant	: no					

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Remarks	: Oil	
ternational Regulation		
IATA-DGR		
UN/ID No.	: UN 1268	
Proper shipping name	: Petroleum distillates, n.o.s.	
Class	: 3	
Packing group	: 11	
Labels	: 3	
IMDG-Code		
UN number	: UN 1268	
Proper shipping name	: PETROLEUM DISTILLATES, N. (Solvent naphtha(petroleum), lig	
Class	: 3	
Packing group	: 11	
Labels	: 3	
Marine pollutant	: yes	
ansport in bulk according to	Annex II of MARPOL 73/78 and the I	BC Code
Pollution category	: Annex I	
Ship type	: 2	
Product name	: Solvent naphtha	
pecial precautions for user		
Remarks	: Special Precautions: Refer to C for special precautions which a u needs to comply with in connect	user needs to be aware of or
Additional Information	: This product is being carried une Annex I.	der the scope of MARPOL
	This product may be transported Nitrogen is an odourless and inv gen may cause asphyxiation or serve strict safety precautions w space entry.	visible gas. Exposure to nitro death. Personnel must ob-

SECTION 15. REGULATORY INFORMATION

OSHA Hazards	:	This material is considered hazardous by the OSHA Hazard
		Communication Standard (29 CFR 1910.1200).

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Fire Hazard Acute Health Hazard Chronic Health Hazard

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 16.0	R	evision Date: 05/22/2015	Print Date: 05/27/2015
SARA 302	:	No chemicals in this mate requirements of SARA Tit	rial are subject to the reporting le III, Section 302.
SARA 313	:	known CAS numbers that	ntain any chemical components with exceed the threshold (De Minimis) ed by SARA Title III, Section 313.
Clean Water A	ct		
	This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Section 311, Table 117.3.		
Pennsylvania	Right To Know		
	Solvent naphtha	(petroleum), light aliph.	64742-89-8
	n-octane		111-65-9
	Heptane		142-82-5
New Jersey Ri	-		
	n-octane		111-65-9 142-82-5
	Heptane		142-02-5
California Pro	p 65		tain any chemicals known to State cer, birth defects, or any other re-
The components of this product are reported in t			wing inventories:
AICS	:	Listed	
DSL	:	Listed	
IECSC	:	Listed	
KECI	:	Listed	
PICCS	:	Listed	
EINECS	:	Listed	
TSCA	:	Listed	
Other regulation	ns :	The regulatory informatior comprehensive. Other reg	n is not intended to be rulations may apply to this material.

SECTION 16. OTHER INFORMATION

Further information

NFPA Rating (Health, Fire, Reac- 1, 3, 0 tivity)

A vertical bar (|) in the left margin indicates an amendment from the previous version. Due to the conversion of this product to GHS classification and labelling, there has been a significant change to the nature of the information presented in chapter 2.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 16.0	Revision Date: 05/22/2015	Print Date: 05/27/2015
Abbreviations and Acronyms	: The standard abbreviations and ment can be looked up in refere dictionaries) and/or websites.	
	dictionaries) and/or websites. ACGIH = American Conference Hygienists ADR = European Agreement of Carriage of Dangerous Goods AICS = Australian Inventory of ASTM = American Society for BEL = Biological exposure limit BTEX = Benzene, Toluene, Et CAS = Chemical Abstracts Ser CEFIC = European Chemical In CLP = Classification Packaging COC = Cleveland Open-Cup DIN = Deutsches Institut fur No DMEL = Derived Minimal Effec DNEL = Derived Mo Effect Leve DSL = Canada Domestic Subsi EC = European Commission EC50 = Effective Concentration EC50 = Effective Concentration ECETOC = European Chemicals A EINECS = The European Inver Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and Inventory EWC = European Waste Code GHS = Globally Harmonised Si Labelling of Chemicals IARC = International Agency for IATA = International Agency for IATA = International Agency for IATA = International Maritime INV = Chinese Chemicals Inve IP346 = Institute of Petroleum determination of polycyclic aror KECI = Korea Existing Chemic LC50 = Lethal Concentration fit LD50 = Lethal Loading/Effec LL/EL/IL = Lethal Loading/Effec LL50 = Lethal Loading/Effec LL50 = Lethal Loading fitty MARPOL = International Conve Pollution From Ships	e of Governmental Industrial oncerning the International by Road Chemical Substances Festing and Materials is hylbenzene, Xylenes vice ndustry Council g and Labelling ormung t Level el tance List in fifty in Ecotoxicology and Toxicolo- Agency ntory of Existing Commercial d New Chemical Substances ystem of Classification and in Research on Cancer ort Association iffty Dangerous Goods ntory test method N° 346 for the matics DMSO-extractables als Inventory fy int.
	NOEC/NOEL = No Observed E served Effect Level OE_HPV = Occupational Expo	
	PBT = Persistent, Bioaccumula PICCS = Philippine Inventory o Substances	itive and Toxic f Chemicals and Chemical
	PNEC = Predicted No Effect Co REACH = Registration Evaluat	

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 16.0	Revision Date: 05/22/2015	Print Date: 05/27/2015
	Chemicals RID = Regulations Relating to Int gerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessmer TSCA = US Toxic Substances Co TWA = Time-Weighted Average vPvB = very Persistent and very	t ht ontrol Act
Sources of key data used to compile the Safety Data Sheet	: The quoted data are from, but no sources of information (e.g. toxica Health Services, material supplie IUCLID date base, EC 1272 regu	ological data from Shell rs' data, CONCAWE, EU
Revision Date	: 05/22/2015	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.