			Project Information				
Project Title: Chevron Methane I			Leak Test	Date:	5/8/2013		
DOE Code:				Contractor Code:			
	Project Lead:	Grant Evenson		'			
1.	Project O Brief project des anything that co environment]	cription [include	The objective of the test at NPR-3 is to answer 3 major scientific questions for the Chevron experiment: 1) What is the performance of existing NASA passive airborne remote sensing instruments with respect to detection of ground sourced methane? 2) How well does the UAV / CH4 sensor platform package perform for 3-dimensional mapping of methane concentrations within controlled release plumes? 3) How well do high-resolution plume models predict the dispersion of methane and resulting concentration profiles as a function of meteorological conditions and gas flux? RMOTC offers a suitable location to address the above questions. The experiment will involve in-situ and airborne instrument measurement strategies to detect and characterize atmospheric methane concentrations. Methane will be released at known fluxes not exceeding 100, 000 standard cubic feet (SCF) total over the duration of the test. Releases will take place at 3 different locations that will vary in intensity each day. The releases will range from Low to high (10-1000 SCF per hour SCFH). • High release fluxes, specified in SCFH (*1000 SCFH), are necessary to investigate the middle and upper limits of detection for each of the NASA airborne sensors and will allow calibration of these instruments to Lower flux rates are expected to test the airborne sensors' limits of detection for natural seep identification and characterization. The releases will allow investigation of sensor performance and calibration. Flyovers will be conducted over a 5 day experiment period and will occur during 5 days of controlled releases of methane at 4 locations. One day will be for background investigation using an unmanned aircraft vehicle (UAV) and ground based drivable equipment. All air operations and responsibilities will be conducted only by Chevron persons Chevron requests use of the RMOTC NPR-3 facility and provision of equipment and personnel for the entire duration of the test. RMOTC personnel tasks include providing generators and power cords, configuring t				
2.	Legal location		N1: 43.33423800 N, 106.23558938 W (~200 yards N2: 43.32205887 N, 106.22734718 W (~50 yards E N3: 43.303477N, 106.217243 W (~50 yards North off 3 Weeks, June 11-26, 2013	ast off detour road)			
3.	Duration of the p	roject					
4.	Major equipment	t to be used	3 rented Honda EU2000i generators at each location when necessary (RMOTC), configuring tanks (RMO(RMOTC), 3 Methane Release Towers (CHEVRON)	TC), Forklift and bucket truck for tan	k set up		

The table below is to be completed by the Project Lead and reviewed by the Environmental Specialist and the DOE NEPA Compliance Officer. NOTE: If Change of Scope occurs, Project Lead must submit a new NEPA Compliance Survey and contact the Technical Assurance Department.

		mpacticipat		If YES, then complete below
Water Quality	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed project present potential for impacts on water resources or water quality?				

360

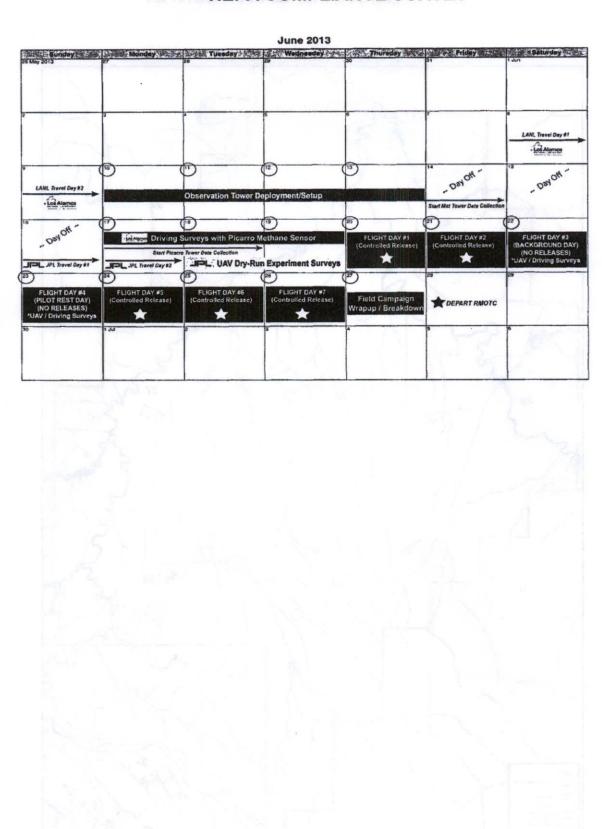
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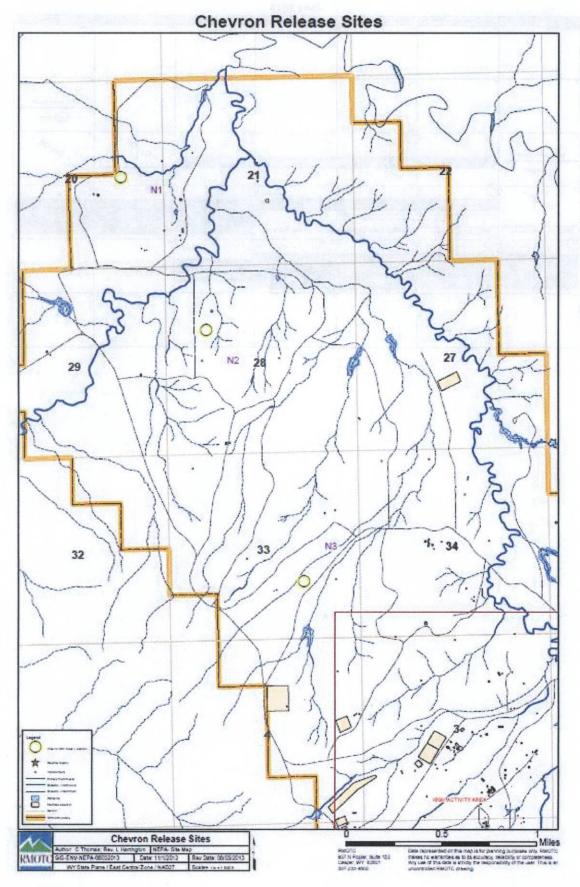
		mpact		If YES, then complete below.		
Geology & Soils	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:		
Does the proposed project present potential for impacts related to geology or soils?				Ecologist to I will		
Does the proposed project alter, excavate or otherwise disturb land area consistent with other land use and habitat area?				le li len refestion		
Is the proposed project likely to impact local seismicity?			Deline	con attace of the control of the con		
If the project involved disturbance of surface soils, are erosion and storm water control measures addressed?				Tables House to the same to th		
Air Quality	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:		
Does the proposed action present potential for impacts on ambient air quality under both normal and accident conditions?				Methane will be released but will not exceed 100,000 SCF. WYDEQ does not regulate methane (per an email correspondence with Mark Smith of WYDEQ). WOGCC does not regulate methane (per a telephone conversation with Tom Kropatsch on 1/31/2013) WYDEQ and WOGCC will be notified prior to the test with how much methane will be released and when. The Honda generators will not need a permit (per a telephone conversation and email from Chris Hanify of WYDEQ).		
Are potential emissions (gases and/or airborne particulates including dust) outside of the normal scope for oil field operations?				Methane will be released but will not exceed 100,000 SCF. WYDEQ does not regulate methane (per an email correspondence with Mark Smith of WYDEQ). WOGCC does not regulate methane (per a telephone conversation with Tom Kropatsch on 1/31/2013) WYDEQ and WOGCC will be notified prior to the test with how much methane will be released and when. The Honda generators will not need a permit (per a telephone conversation and email from Chris Hanify of WYDEQ).		
Does the project present risk to human health and the environment from exposure to radiation and hazardous chemicals in emissions?						
Is the project subject to New Source Performance Standards?				TERRORY VENTER TO STANKE COM		

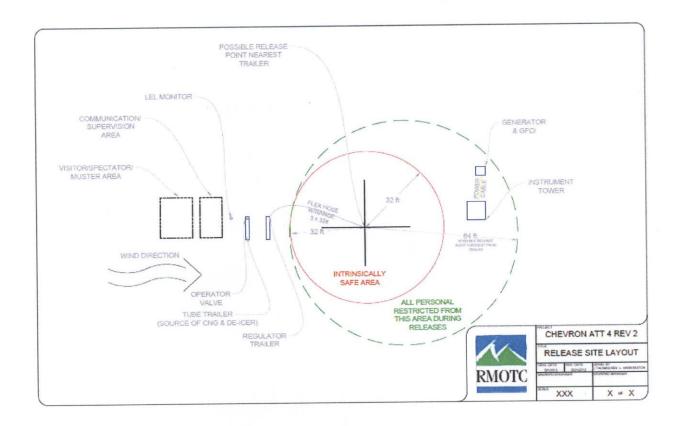
Is the project subject to National Emissions Standards for Hazardous Air Pollutants?				
Is the project subject to emissions limitations in an Air Quality Control Region?				on present tooking because eighness to see the see the see to see the see to see the see t
	Impa	cts	17	If YES, then complete below.
Wildlife and Habitat	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed action present potential for impacts on wildlife or habitat?				
Does the project impact state or federally listed threatened and endangered species?				to encederable benjemit merjang and it
Human Health Effects	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed project present potential for effects on human health? e.g.: Hanta virus, radiological exposure, or chemical exposure (must provide MSDS)				Methane exposure. SDS is attached. To mitigate exposure personnel will wear LEL meters, stay up wind when releases occur, communication with be key, wind socks will be located near release locations to determine wind directions. WYDEQ and WOGCC will be notified when releases occur.
Transportation	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed project involve transportation of radiological sources or hazardous materials (including explosives)?				okine sovene singstalina kingestela ora
Waste Management and Waste Minimization	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Are pollution prevention and waste minimization practices needed in the proposed project?				
Does project plan establish procedures in compliance with local, state and/or federal laws and guidelines affecting the generation, transportation, treatment, storage or disposal of hazardous and other wastes?				Temperature of the photos as a second of

				THE PERSON NAMED IN COLUMN			If YES, then complete below.			
100 pt 10	Community Impact I the proposed project introduce significantly litory, visual, or other impact? I the proposed project adversely affect the immunity's use of public land/resources? I the proposed project adversely affect the immunity's access to private land? NOTE: Topography Map and Wetlands Map ar Level 2 environmental permits required? If YES, list DEQ and WOGCC does not regulate methane pins. Please see attached letter from WYDEQ. require an air permit. Section below to be revered and the properties of the impacts of the provided? Yes No er Quality Impacts of the provided			Yes	No	NA	If the	eptable, r	ecommend mitigation	
Is there poter resources?	ntial for im	Yes No NA If the anticipated impact might be unacceptable, recommend mitigation measures: A cultural resource survey will not be conducted. The release locations will occur on previously disturbed will occur on previously disturbed will occur ~50 yards off the release location will occur ~50 yards off the release location will occur ~50 yards off the road east of the Gas Plant. Previous cultural resource surveys include RMOTC-2-Teapol Dome Archaeology Survey and KL05-7 South. South Creek Vibroseis Project South Hair. Yes No NA If the anticipated impact might be unacceptable, recommend mitigation measures:								
	Com	munity Imp	pact	Yes	No	NA		eptable, re	ecommend mitigation	
			e significantly adve	rse 🗆		D				
	Cultural Impact Solution Proposed project adversely affect the mitry's access to private land?									
NOTE: Top	ography M	ap and We					applicab	e SOPs fo	or Risk Assessment	
Are environm	ental pern	nits require	ed? If YES, list belov	w:			1	res 🗌	No 🖂	
begins. Please	e see attac	ched letter					does			
		Section b	elow to be reviewed	d by Environ	mental Sp	ecialist	t and DO	E NCO.		
Adequate Miti	gation Me	asures Pro	vided?			Ade	quate Mit	igation M	easures Provided?	
		Yes	No			Yes		No		
				ansportation Imp	pacts	Ø				
Air Quality Impact	ts			aste Manageme	ent Impacts	-				
"Wildlife and Habi	itat Impacts	M	□ Cu	Itural Impacts						
Geology and Soil	s Impacts	×	☐ Co	Community Impact						
Human Health Im	pacts		□ Ca	Categorical Exclusion						
				Approvals						
Conditions:	B3.2 Aviation Aviation activ B3.11 Outdo Outdoor tests	nd operation Activities vities for surve or tests and e	of field instruments. ey, monitoring, or securit experiments on materials	Monitoring y purposes that s and equipmer	comply with	ts			_	
Contractor ESS&H	SI	rand	1 Dun	k> ~ /				Date	5/11/2013	

Comments and Conditions:	The actions listed in this NEPA Compliance Survey are classes of actions (categorical execumulatively have a significant effect on the human environment. The activity fits within a Part 1021. Based on my review of information conveyed to me and in my possession (or Compliance Officer (as authorized under DOE Order 451.1A), I have determined that the other regulatory requirements set forth above are met, and the proposed actions are hereby	attached) concerning the proposed action, as NEPA proposed actions fit within the specified class of actions, the
DOE NEPA Compliance Officer	CX5 B3.1, B3.2, + B3.11. Whohael & Paylor	6-/3-/3







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Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name

Natural Gas

Uses

Gaseous fuel for domestic and non-domestic uses.

Manufacturer/Supplier

Shell Energy North America (US), L.P. Two Houston Center

909 Fannin Plaza Level 1 Houston, TX 77010

USA

MSDS Request

713-767-5400

Emergency Telephone Number

Spill Information

877-504-9351

Health Information

DOMESTIC NORTH AMERICA 800-424-9300

INTERNATIONAL, CALL 703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity

CAS No.

Concentration

Natural gas

8006-14-2

100.00 %

Contains Methane, CAS # 74-82-8 Contains Propane, CAS #74-98-6 Contains Ethane, CAS # 74-84-0 Contains Butane, CAS # 106-97-8

Contains hydrogen sulphide, CAS # 7783-06-4.

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance and Odour

Colourless Gas. Typical gas smell due to addition of odouriser

to allow the detection of product leaks.

Health Hazards

Vapours may cause drowsiness and dizziness. High gas concentrations will displace available oxygen from the air; unconsciousness and death may occur suddenly from lack of oxygen. Exposure to rapidly expanding gases may cause frost

burns to eyes and/or skin.

Safety Hazards

Extremely flammable. May form flammable/explosive vapourair mixture. Electrostatic charges may be generated during

handling. Electrostatic discharge may cause fire.

Environmental Hazards

Not classified as dangerous for the environment.

Health Hazards Inhalation

: High gas concentrations will displace available oxygen from the air, unconsciousness and death may occur suddenly from lack of oxygen. Exposure to high gas/vapour concentrations may

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lead to narcotic or anaesthetic effects that may impair judgement or lead to central nervous system

depression. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness,

light-headedness, headache and nausea.

Signs and Symptoms

Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. H2S has a broad range of effects dependent on the airborne concentration and length of exposure: 0.02 ppm odour threshold, smell of rotten eggs; 10 ppm eye and respiratory tract irritation; 100 ppm coughing, headache, dizziness, nausea, eye irritation, loss of sense of smell in minutes; 200 ppm potential for pulmonary cedema after >20-30 minutes; 500 ppm loss of consciousness after short exposures, potential for respiratory arrest; >1000ppm immediate loss of consciousness, may lead rapidly to death, prompt cardiopulmonary resuscitation may be required. Do not depend on sense of smell for warning. H2S causes rapid olfactory fatigue (deadens sense of smell). There is no evidence that H2S will accumulate

in the body tissue after repeated exposure.

Environmental Hazards

Not classified as dangerous for the environment.

4. FIRST AID MEASURES

General Information

Vaporisation of H2S that has been trapped in clothing can be dangerous to rescuers. Maintain respiratory protection to avoid contamination from the victim to rescuer. Mechanical ventilation should be used to resuscitate if at all possible.

Inhalation

Remove to fresh air. Do not attempt to rescue the victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting, or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

Skin Contact **Eye Contact** Ingestion

If persistent irritation occurs, obtain medical attention. If persistent irritation occurs, obtain medical attention. In the unlikely event of ingestion, obtain medical attention

immediately.

Advice to Physician

Treat symptomatically. Hydrogen sulphide (H2S) - CNS asphyxiant. May cause rhinitis, bronchitis and occasionally pulmonary oedema after severe exposure. CONSIDER: Oxygen therapy. Consult a Poison Control Center for guidance.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point Upper / lower Flammability or : -187.8 °C / -306.0 °F

: >= 5 %(V)

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Material Safety Data Sheet

Explosion limits

Auto ignition temperature

Specific Hazards

<= 15 %(V) 583 °C / 1,081 °F

Forms flammable mixture with air. If released, the resulting vapours will disperse with the prevailing wind. If a source of ignition is present where the vapour exists at 5-15%

concentration in air, the vapour will burn along the flame front

toward the source of the fuel.

Suitable Extinguishing

Shut off supply. If not possible and no risk to surroundings, let the fire burn itself out.

Unsuitable Extinguishing Media

Do not use water in a jet.

Protective Equipment for

Wear full protective clothing and self-contained breathing apparatus

Firefighters

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations

Protective measures

Remove all possible sources of ignition in the surrounding area. Evacuate all personnel. Do not breathe fumes, vapour Do not operate electrical equipment. Avoid contact with skin, eyes and clothing. Ventilate contaminated area thoroughly. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area and evacuate all personnel. Attempt to disperse the gas or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas meter.

Additional Advice

Notify authorities if any exposure to the general public or the

environment occurs or is likely to occur.

7. HANDLING AND STORAGE

General Precautions

Handling

Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. The inherent toxic and olfactory (sense of smell) fatiguing properties of hydrogen sulphide require that air monitoring alarms be used if concentrations are expected to reach harmful levels such as in enclosed spaces, heated transport vessels and spill or leak situations. If the air concentration exceeds 50 ppm, the area should be evacuated

unless respiratory protection is in use.

Storage

Keep away from sources of ignition - No smoking. Keep container tightly closed and in a cool, well-ventilated place. Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions. These include issuing of work

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permits, gas-freeing of tanks, using a manned harness and lifelines and wearing air-supplied breathing apparatus. Prior to entry and whilst cleaning is underway, the atmosphere within the tank must be monitored using an oxygen meter and explosimeter.

Product Transfer

Earth all equipment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Туре	ppm	mg/m3	Notation
Methane	ACGIH	TWA	1,000 ppm		Unicome con construction
Ethane	ACGIH	TWA	1,000 ppm		
Propane	OSHA Z1	PEL	1,000 ppm	1,800 mg/m3	
Propane	OSHA Z1A	TWA	1,000 ppm	1,800 mg/m3	
Propane	ACGIH	TWA	1,000 ppm		
Butane	ACGIH	TWA	1,000 ppm		
Hydrogen Sulphide	ACGIH	TWA	10 ppm		
Hydrogen Sulphide	ACGIH	STEL	15 ppm		arenteces in quantities
Hydrogen Sulphide	OSHA Z1A	TWA	10 ppm	14 mg/m3	
Hydrogen Sulphide	OSHA Z1A	STEL	15 ppm	21 mg/m3	
Natural gas	ACGIH	TWA	1,000 ppm		

Exposure Controls

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: Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

Personal Protective Equipment **Respiratory Protection**

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where respiratory protective equipment is required, use a full-face mask. All respiratory protection equipment and use must be in accordance with local regulations. Respirator selection, use and maintenance should be in

accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

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Hand Protection : Not normally required. Suitability and durability of a glove is

dependent on usage, e.g. frequency and duration of contact. Always seek advice from glove suppliers. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. If contact with liquefied product is possible or anticipated, gloves should be thermally insulated to

prevent cold burns.

Eye Protection : Chemical splash goggles (gas-tight monogoggles) and face

shield with chin guard.

Protective Clothing : Skin protection not ordinarily required beyond standard issue

work clothes.

Monitoring Methods : Monitoring the oxygen content of the air is often the best

means of ensuring safety. There are substantial risks if the concentration of oxygen in the atmosphere varies from the normal (20.8%) under normal atmospheric pressure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Colourless Gas.

Odour : Typical gas smell due to addition of odouriser to allow the

detection of product leaks.

Initial Boiling Point and : -161.5 °C / -258.7 °F

Boiling Range Flash point

: -187.8 °C / -306.0 °F

Upper / lower Flammability : >= or Explosion limits

: >= 5 %(V)

Auto-ignition temperature

<= 15 %(V) 583 °C / 1,081 °F

Density

420 g/cm3 at -165.5 °C / -265.9 °F Liquid methane at boiling

point.

Water solubility

0.08 g/l at 25 °C / 77 °F

Vapour density (air=1)

: Typical 0.58

10. STABILITY AND REACTIVITY

Stability : Stable under normal use conditions.

Conditions to Avoid : Heat, flames, and sparks. May form explosive mixture on

contact with air.

Materials to Avoid Hazardous Decomposition

Is to Avoid : Strong oxidising agents.

Products

Hazardous decomposition products are not expected to form

during normal storage.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on product data, a knowledge of the

components and the toxicology of similar products.

Acute Oral Toxicity
Acute Dermal Toxicity

: LD50 > 5000 mg/kg , Rat : LD50 > 5000 mg/kg , Rat

Acute Inhalation Toxicity : LC50 > 200 mg/l / 4 h, Rat

Breathing of high vapour concentrations may cause central

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nervous system (CNS) depression resulting in dizziness, light-

headedness, headache and nausea.

Skin Irritation Eye Irritation

Not expected to be a hazard. Not expected to be a hazard.

Respiratory Irritation Sensitisation Mutagenicity Carcinogenicity

Not expected to be a respiratory irritant. Not a skin sensitiser.

Not considered a mutagenic hazard.

Components are not known to be associated with carcinogenic

effects.

Reproductive and **Developmental Toxicity** Additional Information

Not a developmental toxicant.

High gas concentrations will displace available oxygen from the air; unconsciousness and death may occur suddenly from lack of oxygen. H2S has a broad range of effects dependent on the airborne concentration and length of exposure: 0.02 ppm odour threshold, smell of rotten eggs; 10 ppm eye and respiratory tract irritation; 100 ppm coughing, headache, dizziness, nausea, eye irritation, loss of sense of smell in minutes; 200 ppm potential for pulmonary oedema after >20-30 minutes; 500 ppm loss of consciousness after short exposures, potential for respiratory arrest; >1000ppm immediate loss of consciousness, may lead rapidly to death, prompt cardiopulmonary resuscitation may be required. Do not depend on sense of smell for warning. H2S causes rapid olfactory fatigue (deadens sense of smell). There is no evidence that H2S will accumulate in the body tissue after repeated exposure.

12. ECOLOGICAL INFORMATION

Information given is based on product data, a knowledge of the components and the ecotoxicology of similar products

Acute Toxicity

Practically non toxic: LC/EC/IC50 > 100 mg/l (to aquatic

organisms)

Mobility

Contains volatile components. Evaporates extremely rapidly

from water or soil surfaces

Persistence/degradability

Inherently biodegradable. Oxidises rapidly by photo-chemical

reactions in air.

Bioaccumulation

Does not bioaccumulate significantly.

13. DISPOSAL CONSIDERATIONS

Material Disposal

Do not discharge into areas where there is a risk of forming an

explosive mixture with air.

Local Legislation

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may

be more stringent than regional or national requirements and must be complied with.

14. TRANSPORT INFORMATION

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US Department of Transportation Classification (49CFR)

Identification number

UN 1971

Proper shipping name

Natural gas, compressed

Class / Division

2.1

IMDG

Identification number

UN 1971

Proper shipping name

NATURAL GAS, COMPRESSED

Class / Division

2.1

Marine pollutant:

No

IATA (Country variations may apply)

Identification number

UN 1971

Proper shipping name

Natural gas, compressed

Class / Division

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)

Natural Gas ()

Reportable quantity: 100 lbs

Natural gas (8006-14-2)

Reportable quantity: 100 lbs

Methane (74-82-8)

Propane (74-98-6)

Reportable quantity: 100 lbs Reportable quantity: 100 lbs

Ethane (74-84-0)

Reportable quantity: 100 lbs

Hydrogen Sulphide (7783-06-4)

Reportable quantity: 100 lbs

Clean Water Act (CWA) Section 311

Hydrogen Sulphide (7783-06-4)

Reportable quantity: 100 lbs

SARA Hazard Categories (311/312)
Immediate (Acute) Health Hazard. Fire Hazard. Sudden Release of Pressure Hazard.

SARA Extremely Hazardous Substances (302/304)

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Hydrogen Sulphide (7783-06-4) Hydrogen Sulphide (7783-06-4) Reportable quantity: 100 lbs Threshold Planning Quantity: 500 lbs

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

New Jersey Right-To-Know Chemical List

Natural gas (8006-14-2) Listed. Listed. Listed. Listed Listed. Listed. Listed. Listed. Methane (74-82-8) Listed. Listed Listed. Listed. Propane (74-98-6) Ethane (74-84-0) Listed. Hydrogen Sulphide (7783-06-4) Listed. Listed. Butane (106-97-8)

Pennsylvania Right-To-Know Chemical List

Natural gas (8006-14-2) Methane (74-82-8) Propane (74-98-6) Listed. Listed. Listed. Ethane (74-84-0) Listed. Hydrogen Sulphide (7783-06-4) Environmental hazard.

Listed. Butane (106-97-8) Listed.

16. OTHER INFORMATION

MSDS Version Number

: 2.0

MSDS Effective Date

: 11/23/2009

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1910.1200

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MSDS Revisions

: A vertical bar (I) in the left margin indicates an amendment

from the previous version.

MSDS Regulation

The content and format of this MSDS is in accordance with the

MSDS Distribution

OSHA Hazard Communication Standard, 29 CFR 1910.1200. The information in this document should be made available to

all who may handle the product.

Disclaimer

: The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.