

SHOP C1014 7:3 SDS# 7876 Version 1.3 Effective Date 08/25/2017

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name SHOP C1014 7:3

Uses Use as an intermediate in industrial chemicals manufacture.

Product Code V1400

Shell Chemical LP Company

PO Box 576

HOUSTON TX 77001

USA

SDS Request 1-800-240-6737 **Customer Service** : 1-855-697-4355

Emergency Telephone Number

Chemtrec Domestic : 1-800-424-9300

(24 hr)

Chemtrec : 1-703-527-3887

International (24 hr)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration		
1-Decene	872-05-9	60.00 - 70.00 %W		
1-Tetradecene	1120-36-1	30.00 - 40.00 %W		

3. HAZARDS IDENTIFICATION

Emergency Overview

: Colourless. Liquid. Mild hydrocarbon. **Appearance and Odour**

Health Hazards : Harmful: may cause lung damage if swallowed. Irritating to skin.

Vapours may cause drowsiness and dizziness.

Flammable liquid. The vapour is heavier than air, spreads along **Safety Hazards**

the ground and distant ignition is possible. Will float and can be

reignited on surface water.

Health Hazards

Inhalation Vapours may cause drowsiness and dizziness.

Skin Contact Irritating to skin.

: Moderately irritating to eyes. **Eye Contact**

: Harmful: may cause lung damage if swallowed. Ingestion

Signs and Symptoms Breathing of high vapour concentrations may cause central

nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Other signs and symptoms of central nervous system (CNS) depression may include headache, nausea, and lack of

coordination. Skin irritation signs and symptoms may include a

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burning sensation, redness, swelling, and/or blisters. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure.

4. FIRST-AID MEASURES

Inhalation Remove to fresh air. If rapid recovery does not occur, transport

to nearest medical facility for additional treatment.

Skin Contact Remove contaminated clothing. Immediately flush skin with

> large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical

facility for additional treatment.

Flush eye with copious quantities of water. If persistent irritation **Eye Contact**

occurs, obtain medical attention.

If swallowed, do not induce vomiting: transport to nearest Ingestion

> medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Advice to Physician Potential for chemical pneumonitis. Consider: gastric lavage

with protected airway, administration of activated charcoal. Call

a doctor or poison control center for guidance.

5. FIRE-FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point : ca. 46 °C / 115 °F (Closed cup)

Upper / lower : 1.0 - 5.0 %(V)

Flammability or Explosion

limits

Specific Hazards : Carbon monoxide may be evolved if incomplete combustion

> occurs. Will float and can be reignited on surface water. The vapour is heavier than air, spreads along the ground and distant

ignition is possible.

Suitable Extinguishing

Media

: Foam, water spray or fog. Dry chemical powder, carbon dioxide,

sand or earth may be used for small fires only.

Unsuitable Extinguishing

Media

Do not use water in a jet.

Protective Equipment for

Wear full protective clothing and self-contained breathing

apparatus.

Firefighters Additional Advice

Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Protective measures Avoid contact with spilled or released material. Immediately

remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data

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Sheet. For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour 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 (conthing) all aguisment.

and grounding (earthing) all equipment.

Clean Up Methods : For large liquid spills (> 1 drum), transfer by mechanical means

such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely.

Remove contaminated soil and dispose of safely.

For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove

contaminated soil and dispose of safely.

Additional Advice : Observe all relevant local and international regulations. The

vapour is heavier than air, spreads along the ground and distant

ignition is possible.

7. HANDLING AND STORAGE

General Precautions : Avoid breathing vapours or contact with material. Only use in

well ventilated areas. Wash thoroughly after handling. On guidance on selection of personal protective equipment see

Chapter 8 of this Safety Data Sheet.

Handling : Avoid contact with the skin. Electrostatic charges may be

generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<= 1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Handle and open container with care in a

well-ventilated area. Do not empty into drains.

Storage : Bulk storage tanks should be diked (bunded). Keep away from

aerosols, flammables, oxidizing agents, corrosives and from products harmful or toxic to man or to the environment. Must be stored in a well-ventilated area, away from sunlight, ignition

sources and other sources of heat. Nitrogen blanket

recommended.

Product Transfer : Keep containers closed when not in use. Do not use



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compressed air for filling, discharging or handling.

Recommended Materials: For containers, or container linings use mild steel, stainless

steel.

Unsuitable Materials : Copper. Copper alloys.

Container Advice : Containers, even those that have been emptied, can contain

explosive vapours. Do not cut, drill, grind, weld or perform

similar operations on or near containers.

Additional Information : Use the information in this data sheet as input to a risk

assessment of local circumstances to help determine

appropriate controls for safe handling, storage and disposal of

this material.

Ensure that all local regulations regarding handling and storage

facilities are followed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Type	ppm	mg/m3	Notation
1-Tetradecene	SHELL IS	TWA (8 h)	100 ppm		

Additional Information: SHELL IS is the Shell Internal Standard.

Wash hands before eating, drinking, smoking and using the

toilet. Launder contaminated clothing before re-use.

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:

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.

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

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 air-filtering respirators are suitable, select an appropriate combination of

mask and filter.

Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory



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Protection Standard, 29 CFR 1910.134.

Where respiratory protective equipment is required, use a

full-face mask.

Hand Protection : 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.

Eye Protection : Chemical splash goggles (chemical monogoggles).

Protective Clothing : Chemical resistant gloves/gauntlets, boots, and apron (where

risk of splashing).

Environmental Exposure

Controls

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

9. PHYSICAL AND CHEMICAL PROPERTIES

The physical and chemical property data are typical values and do not constitute a specification.

Appearance : Colourless. Liquid.
Odour : Mild hydrocarbon.

Boiling point : 170.0 - 243.9 °C / 338.0 - 471.0 °F Flash point : ca. 46 °C / 115 °F (Closed cup)

Upper / lower Flammability

or Explosion limits

: 1.0 - 5.0 %(V)

Vapour pressure : < 0.033 psia at 25.0 °C / 77.0 °F Specific gravity : 0.754 at 15.6 °C / 60.0 °F

Water solubility : < 0.5 mg/l at 25 °C / 77 °F Negligible.

State of aggregation : Liquid/Solid Stability Stable.

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions of use.

Conditions to Avoid : Avoid heat, sparks, open flames and other ignition sources.

Avoid exposure to air.

: Strong oxidising agents.

Hazardous Decomposition

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Materials to Avoid

Products

: Thermal decomposition is highly dependent on conditions. A

complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or

thermal or oxidative degradation.

Hazardous Reactions : Avoid contact with strong Lewis or mineral acids. Should be

reacted with halogens only under controlled conditions. Free

radical initiators should be avoided.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on product testing, and/or similar

products, and/or components.

Acute Oral Toxicity : Low toxicity: LD50 >200mg/kg , Rat (1-Decene)

Aspiration into the lungs when swallowed or vomited may cause

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chemical pneumonitis which can be fatal.

Acute Dermal Toxicity Acute Inhalation Toxicity Low toxicity: LD50 >2000 mg/kg, Rabbit (1-Decene) Low toxicity: LC50 >20 mg/l / 1 hours, Rat (1-Decene) High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea;

continued inhalation may result in unconsciousness and/or

death.

Skin corrosion/irritation

Serious eye damage/irritation Irritating to skin. (1-Decene)

Moderately irritating to eyes.(1-Decene)

Material	:	Carcinogenicity Classification
1-Decene	:	GHS / CLP: No carcinogenicity classification
1-Tetradecene	:	GHS / CLP: No carcinogenicity classification

12. ECOLOGICAL INFORMATION

Acute Toxicity

Toxic: 1 < LC/EC/IC50 <= 10 mg/l Fish

Aquatic crustacea Expected to be toxic: 1 < LC/EC/IC50 <= 10 mg/l Algae/aquatic plants Expected to be harmful: 10 < LC/EC/IC50 <= 100 mg/l

Microorganisms Low toxicity: LC/EC/IC50 > 100 mg/l

Adsorbs to soil and has low mobility. **Mobility**

Floats on water.

Persistence/degradability

Readily biodegradable. Bioaccumulation Has the potential to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Material Disposal 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.

Drain container thoroughly. After draining, vent in a safe place **Container Disposal**

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.

14. TRANSPORT INFORMATION

US Department of Transportation Classification (49CFR)

Identification number UN 3295

UN proper shipping name Hydrocarbons, liquid, n.o.s.

Class / Division 3 Packing group Ш

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Emergency Response Guide

No. .

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IMDG

Identification number UN 3295

UN proper shipping name HYDROCARBONS, LIQUID, N.O.S.

Technical name (1-Decene)

Class / Division 3
Packing group III

Marine Pollutant: Yes (1-Decene)

IATA (Country variations may apply)

Identification number UN 3295

UN proper shipping name Hydrocarbons, liquid, n.o.s.

Class / Division 3
Packing group III

Additional Information : This product may be transported under nitrogen

blanketing. Nitrogen is an odourless and invisible gas. Exposure to nitrogen may cause asphyxiation or death. Personnel must observe strict safety precautions when

involved with a confined space entry.

15. REGULATORY INFORMATION

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

Federal Regulatory Status

Notification Status

TSCA All components listed. **AICS** All components listed. DSL All components listed. INV (CN) All components listed. **EINECS** All components listed. ENCS (JP) All components listed. **KOREA** All components listed. PICCS (PH) All components listed.

SARA Hazard Categories (311/312)

Immediate (Acute) Health Hazard. Fire Hazard.

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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.

16. OTHER INFORMATION

HMIS Rating (Health, Fire, : 2, 2, 0

Reactivity)

NFPA Rating (Health, Fire, : 2, 2, 0

Reactivity)

SDS Version Number : 1.3

SDS Effective Date : 08/25/2017

SDS Revisions : A vertical bar (|) in the left margin indicates an amendment from

the previous version.

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

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Uses and Restrictions : Chemical intermediate.

SDS Distribution : 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.

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