

Product Stewardship Summary Solvent Co-Products (Light Solvent Stripper Overhead)



Introduction:

This Product Stewardship Summary document is a summary intended to provide the general public with an overview of product safety information on this chemical substance. It contains basic information and is not intended to provide emergency response information, medical or treatment information, or to provide a discussion of all safety and health information. This document is not intended to replace the Safety Data Sheet (SDS). Before handling or using Solvent Coproducts (Light Solvent Stripper Overhead [Light SSO]), the relevant SDS has to be consulted.

The substances in LIGHT SSO are synthetic chemicals that do not occur naturally. Since the majority of LIGHT SSO is used as industrial

solvents and industrial fuels, the primary source of exposure exists within the industrial sectors where LIGHT SSO is manufactured or used (chemical manufacture, fuel blending). Natural degradation processes and wastewater treatment techniques remove a large proportion of LIGHT SSO from water, however there is still potential for aquatic exposure.

Chemical Identity and Properties:

LIGHT SSO is a co-product of solvent production and contains a mixture of paraffins, olefins, and petroleum

distillates and petroleum based compounds.

At ambient temperature and pressure LIGHT SSO is a yellow oily organic liquid with a hydrocarbon-like characteristic odor. The density at 16°C is approximately 0.77 g/cm³, which is lower than that of water. These substances do not freeze under ambient temperatures, have moderate vapor pressures (are somewhat volatile) and are not readily soluble in water. They are highly flammable liquids.

Uses:

LIGHT SSO is primarily used as a solvent for chemical manufacturing or as a fuel blend stock.

LIGHT SSO is not directly used in household or personal care products.



Health Effects Summary:

Effect Assessment	Result
Acute Toxicity	May be fatal if swallowed
	and enters airways
	(aspiration hazard).
	Harmful if swallowed.
Irritation / corrosion	Causes serious eye
	irritation and is a skin
	irritant.
Sensitization	Not considered to be
	sensitizing.
Toxicity after repeated	None known.
exposure	
Genotoxicity /	Not known to cause genetic
mutagenicity	defects.
Carcinogenicity	Not known to cause cancer.
Toxicity for	No available data.
reproduction	

Environmental Information:

Based on available data for the pure substances, LIGHT SSO is very toxic to aquatic organisms with long lasting effects. They are readily biodegradable and will not persist in the environment.

Environmental Effects Summary:

Effect Assessment	Result
Aquatic Toxicity	
	Very toxic to aquatic life with
	long lasting effects.



Environmental Fate Summary:

Fate and Behavior	Result
Biodegradation	Readily biodegradable.
Bioaccumulation	Unknown.
potential	
Mobility	The product will evaporate
	at a moderate rate.



Exposure Potential:

Exposure to personnel in manufacturing facilities is considered very low because the process, storage and handling operations are enclosed. Workers who might accidentally come in contact with the nonformulated, undiluted substances should follow the safety measures recommended in the Safety Data Sheet (SDS).

The exposure of consumers or the general public to LIGHT SSO is judged to be negligible as it is not used in consumer products and is readily degraded in the environment.

Risk Management:

LIGHT SSO can be stored, transferred, processed and disposed of safely when proper procedures and safeguards are employed in industrial use. LIGHT SSO production is carried out in equipment designed to prevent exposure to workers and release to the environment. Tanks, piping, pumps, and other processing equipment are specified for handling of these materials. Secondary containment around storage tanks, process air combustion, scrubbers and other means are used to further protect from release to the environment. Access to the production facility is restricted to employees, and approved contractors and visitors.

Personal protective equipment such as chemical resistant suits, gloves and boots, goggles or face shields must be worn when handling or transferring LIGHT SSO as dictated by the extent of potential exposure. Steel drums, tank trucks, railcars and other transport vessels are inspected prior to and after loading to ensure that no product is released. Carriers are approved and their performance reviewed. Sasol utilizes Chemtrec® and the National Chemical Emergency Centre (NCEC) as 24 hour contact numbers to provide emergency response information to transportation workers and first responders in the case of an accident en route.



Safety Data Sheets (SDS) for each product and practical safe handling information are provided to our customers and carriers so that they are able to use and transport our products safely. These chemical and documents include properties, recommended storage conditions and personal protective equipment, firefighting and first aid information, accidental release measures, exposure quidelines and other regulatory information. Please refer to these documents for additional details.



Regulatory Information:

LIGHT SSO is classified as hazardous for workers and in transportation. They are regulated under a



variety of local, state, federal and international laws requiring exposure and environmental controls, as well as various means of hazard communication such as labeling and SDS.

Classification and labelling

Under GHS, substances are classified according to their physical, health, and environmental hazards. The hazards are communicated via specific labels and the SDS. GHS attempts to standardize hazard communication so that the intended audience (workers, consumers, transport workers, and emergency responders) can better understand the hazards of the chemicals in use. The following classification and labelling information is based on the US Occupational Safety and Health Administration (OSHA) Hazard Communication Standard. Other regional classification and labelling information, such as substances registered for REACH in the European Union (EU), may differ from the US classification and labelling information.

Classification

Flammable liquids Category 2
Acute Oral Toxicity Category 4
Aspiration Hazard Acute Aquatic Category 1
Toxicity

Toxicity

Chronic Aquatic Category 1

Toxicity

Labelling

Signal word: Danger

Hazard pictograms:









Hazard statements:

H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters

airways.

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

H 410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

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.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P273 Avoid release to the environment.

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 water spray, alcoholresistant foam, dry chemical or carbon dioxide for extinction.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P330 Rinse Mouth

P331 Do NOT induce vomiting.

P391 Collect spillage

P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to an approved waste disposal plant.

Product Stewardship:

Sasol is firmly committed to the safe manufacture, handling and distribution of our products. We incorporate product stewardship and safety into our operating and business decisions. We actively communicate our product stewardship expectations to new and existing customers and distributors. Our



procedures require evaluation of potential customers with regard to the suitability of the proposed use and the safe handling systems in place prior to establishing a supply relationship. We conduct audits of customers, warehouses, and carriers as appropriate. We perform periodic product risk reviews to identify actions we can take to further minimize risk with regard to distribution and use of our products.

We provide SDS and safe handling information to customers. We welcome questions and open communication with customers regarding practical handling and safety practices for our products. Our SHES (safety, health, environmental & security), operations, maintenance and technical service personnel are ready resources for customers and others involved in using or transporting our products.

Conclusion:

LIGHT SSO is an important chemical solvent and fuel blend stock used by industrial customers. Although LIGHT SSO is a hazardous material, it is regulated for public safety and measures are in place for its safe manufacture, storage, distribution and use.

For Further Information:

E-mail address	usasales@sasol.com
ICCA portal	http://www.icca-
	chem.org/en/Home/Global-
	Product-Strategy/

Glossary:

Acute toxicity	Harmful effect resulting from a single or short term exposure to a substance.
Biodegradation	Decomposition or breakdown of a substance under natural
	conditions (action of microorganisms, etc.).
Bioaccumulation	Progressive accumulation in living organisms of a chemical substance present in the

environment.

Carcinogenicity Substance effects causing

cancer.

Chronic toxicity Harmful effect after repeated

exposures or long term exposure to a substance.

Clastogenicity Substance effect that causes

breaks in chromosomes.

Embryotoxicity Flash point

REACH

Harmful effect on fetal health. The lowest temperature at which vapor of the substance may form an ignitable mixture

with air.

Genotoxicity Substance effect that causes

damage to genes, including mutagenicity/clastogenicity.

GHS Global Harmonized System on

Classification and Labelling of

chemicals.

Hazard Inherent substance property

bearing a threat to health or

environment.

Mutagenicity Substance effect that cause

mutation on genes.

Persistance Refers to the length of time a

compound stays in the

environment, once introduced. REACH stands for Registration, Evaluation, Authorisation and

Restriction of Chemicals.
REACH is a regulation of the European Union, adopted to improve the protection of human health and the

environment from the risks that can be posed by chemicals,

while enhancing the competitiveness of the EU

chemicals industry.

Reprotoxicity Including teratogenicity,

embryotoxicity and harmful

effects on fertility.

Sensitizing Allergenic.

Sediment Topsoil, sand and minerals

washed from land into water forming in the end a layer at the

bottom of rivers and sea.

Teratogenic Substance effect on fetal

morphology.

Vapor pressure A measure of a substance's

property to evaporate.



Volatile Any substance that evaporates

readily.

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References:

Light Solvent Stripper Oil (LIGHT SSO) SDS

Disclaimer:

This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of health and safety information. Additional information is available through the chemical's applicable Safety Data Sheet which should be consulted before use of the chemical. The product stewardship summary does not supplant or replace required regulatory and/or legal communication documents.

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