

Safety Data Sheet

1. IDENTIFICATION

Product Name:	Solvent 150
Other Names:	-
Recommended Use:	Raw material for used in the chemical process industries, and surface coatings, printing inks, cleaners, and wood preservative formulations.
Supplier:	Global Chemie ASCC Limited
Street Address:	88/123 Moo 2 Bangpoo Industrial Estate (North), Phraek Sa Mai, Mueang Samutprakan, Samutprakan 10280 www.gcascc.com
Telephone:	+66 2324 6888
Fax:	+66 2324 6889-99
Emergency phone:	+66 2324 6888 ext.320

2. HAZARDS IDENTIFICATION

Hazardous Nature

This product is classified as hazardous under GHS criteria

Hazardous Classification

Flammable Liquid: Category 4

Carcinogen: Category 2

Specific target organ toxicant (central nervous system): Category 3

Aspiration toxicant: Category 1

Acute aquatic toxicant: Category 2

Chronic aquatic toxicant: Category 2

Hazardous Statement

Combustible liquid.

GHS Pictograms



Hazard Statements

H227: Combustible liquid.

H304: May be fatal if swallowed and enters airways.

H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from flames and hot surfaces. No smoking.

P261: Avoid breathing mist / vapours.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

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

Response Statements

P301 + P310: Immediately call a POISON CENTER or doctor/physician.
 P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P308 + P313: IF exposed or concerned: Get medical advice/attention.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P331: Do NOT induce vomiting.
 P370 + P378: In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish.
 P391: Collect spillage.

IF exposed or concerned

P331: Do NOT induce vomiting.

Storage Statements

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
 P403 + P235: Store in a well-ventilated place. Keep cool.
 P405: Store locked up.

Disposal Statements

P501: 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.

Signal Word Danger

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	UN No.	Proportion (%v/v)
Solvent naphtha (petroleum) heavy aromatic	64742-94-5	1268	100

Molecular Formular: No data available.

Molecular Weight: No data available.

4. FIRST AID MEASURES

For advice, contact Ramathibodi Poison Center (Phone: 1367) or a doctor.

Ingestion

Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration and transport to nearest medical facility for additional treatment.

Eye Contact

Immediately flush eyes with large amounts of water for at least 15 minutes. Rest eyes for 30 minutes. If redness, burning, blurred vision or swelling persists, transport to the nearest medical facility for additional treatment.

Skin Contact

Remove contaminated clothing. Immediately flush skin with large amounts water and follow by washing with soap if available.

Inhalation

Remove to fresh air. If the victim has difficulty breathing or tightness of the chest, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

First Aid facilities

Provide eye baths and safety showers.

Medical Attention

Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Appropriate Extinguishing Media:

Dry chemical powder, Alcohol-resistant foam and Carbon dioxide

Hazards from combustion products

May produce toxic fumes of carbon monoxide, carbon dioxide if burning.

Fire Fighting Instructions

Keep adjacent containers cool by spraying with water. Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

PROTECTIVE MEASURES

- Observe all relevant local and international regulations.
- Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see chapter 8 this Material Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
- Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

SPILL MANAGEMENT

Small spillage (< 200 LT): 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.

Large spillage (> 200 LT): 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.

Other Information

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin, eyes, and clothing. Do not breathe vapours. Extinguish any naked flame. Remove ignition sources. Avoid sparks. Do not smoke. The vapour is heavier than air spreads along the ground and distant ignition is possible. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not use compressed air for filling, discharging, or handling operations. Handle and open container with care in well-ventilated area. Do not empty into drains.

Storage

Must be stored in a diked (bonded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bonded). Keep away from aerosols, flammables, oxidizing agents, corrosives. Storage Temperature: Ambient.

Product Transfer

Keep containers closed when not in use. Do not use compressed air for filling, discharging, or handling operations. If positive displacement pumps are used, these must be fitted with a non- integral pressure relief valve. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Recommended Materials

For containers, or container linings use mild steel, stainless steel.

Additional 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.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Exposure limits/standards (Note: Exposure limits are not additive)

<u>Substance Name</u>	<u>Form</u>	<u>Limit/Standard</u>	<u>Note</u>	<u>Source</u>
Trimethyl benzene	ACGIH	TWA 125 ppm		ACGIH

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value.

PERSONAL PROTECTION Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection:

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hand Protection:

Butyl rubber gloves, Nature rubber gloves, Neoprene rubber gloves, Nitrile rubber gloves.

Eye Protection:

Chemical splash goggles (chemical monogoggles).

Other Protection: Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical Value
Appearance	-	Colorless Liquid
Odour	-	Specific odour
pH	-	No data available
Boiling point	°C	177-216
Melting point	°C	No data available
Flash point	°C	62 (Closed cup)
Autoignition Temperature	°C	>250
Decomposition Temperature	°C	343
Lower/Upper Flammability Limits	%V	1.2-7.5
Density @ 20°C	g/cm ³	No data available
Specific Gravity @ 20°C	-	No data available
Viscosity @ 20°C	cSt.s	No data available
Vapor pressure	kPa	No data available
Vapor density	kPa (Air = 1)	>1
Evaporation Rate	(n-Butyl acetate = 1)	0.05
Water Solubility	g/l	Insoluble
Solubility in other solvents Partition coefficient	(n-octanol/water)	No data available
Coefficient of Thermal Expansion	per Deg °C	No data available

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY

Chemical Stability

Material is stable under normal conditions.

Conditions to avoid

Heat, flame, spark and other ignition sources.

Hazardous decomposition products

Thermal decomposition is highly dependent on conditions. Carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation. May form explosive peroxides.

Hazardous reactions

Stable under normal conditions.

Hazardous Polymerisation : No.

Materials to Avoid

Strong oxidizing agents and acid.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Acute oral toxicity : >2,000 mg/kg , (rat)

LD50 Acute dermal toxicity : >2,000 mg/kg , (rat)

LC50 Acute inhalation toxicity : >20 mg/l /4 hour , (rat)

Eye Contact

Irritating to eyes.

Skin Contact

Irritating to skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Inhalation

Inhalation of vapours or mists may cause irritation to the respiratory system.

Carcinogenicity

Limited evidence of carcinogenic effect.

12. ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

Acute Toxicity

Fish : Low toxicity 10< LC/EC/IC50 <=10 mg/l

Aquatic Invertebrates : Low toxicity 10< LC/EC/IC50 <=10 mg/l

Algae : Low toxicity 1< LC/EC/IC50 <=10 mg/l

Biodegradation:

Readily biodegradable.

Mobility:

Floats on water. Adsorbs to soil and low mobility.

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 classifications and disposal methods in compliance with applicable regulations.

Container Disposal

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recovered or metal reclaimed.

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

Road and Rail Transport		Marine Transport		Air Transport	
UN. Number	1268	UN. Number	1268	UN. Number	1268
Class/Item	3	Class/Item	3	Class/Item	3
Hazard Symbol	Flammable Liquid	Hazard Symbol	Flammable Liquid	Hazard Symbol	Flammable Liquid
Proper Shipping Name	Petroleum Distillates, N.O.S.	Proper Shipping Name	Petroleum Distillates, N.O.S.	Proper Shipping Name	Petroleum Distillates, N.O.S.
Packing Group	III	Packing Group	III	Packing Group	III
		Marine Pollutant			

Dangerous Goods Segregation

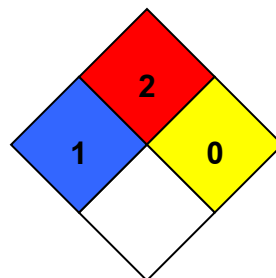
This product is classed as Dangerous Goods Class 3, packing group III. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

15. REGULATORY INFORMATION

EC Label Name	:	Solvent naphtha (Petroleum) heavy aromatic
EC Classification	:	Flammable, Harmful, Dangerous for the environment
EINECS (EC)	:	265-198-5
EC Annex I Number	:	649-424-00-3

16. OTHER INFORMATION

National Fire Protection Association (USA) :



- Health
- Flammable
- Reactivity
- Specific Hazard

MSDS Distribution : The information in this document should be made available to all who may handle the product.

Prepared By : Quality Control Department / Global Chemie ASCC Limited

Abbreviations:

AICS: Australian Inventory of Chemical Substances
 CAS Number: Chemical Abstracts Number
 IARC: International Agency for Research on Cancer
 N/A: not available
 NOHSC: National Occupational Health and Safety Council
 GHS: Global Harmonized System

References:

- Supplier Material Safety Data Sheets
- <http://chem.sis.nlm.nih.gov/chemidplus> (October 18)
- <http://hsis.ascc.gov.au/SearchHS.aspx> (October 18)
- Ecotoxicology data: http://cfpub.epa.gov/ecotox/quick_query.htm (October 18)
- *Sax's Dangerous Properties of Industrial Materials*, Richard J. Lewis Snr., pub. Canada (2000)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. No warranty and guarantee are expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product. For further information, please contact Global Chemie ASCC Limited.