

SAFETY DATA SHEET: ALIPAX 3040

MSDS No: TMC-AP-1268

1. IDENTIFICATION OF CHEMICAL PRODUCT

Name of substance: Alipax 3040 **Chemical Family:** Aliphatic

Product Description: Clear, colourless liquid

Supplier: Transmare-Chemie (Singapore) Pte Ltd
No. 12 Soon Lee Road, Singapore 628076
Telephone: (65) 6262 0122
Facsimile: (65) 6262 0112
Email: sales@transmare-chemie.com
Website: www.transmare-chemie.com

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Flammable Liquid	Category 3
Skin Corrosion / Irritation	Category 2
Carcinogenicity	Category 1B
Aspiration Hazard	Category 1
Hazardous to the aquatic environment (chronic)	Category 2

GHS Label Elements

Symbols:



Signal Word(s): Danger

GHS Hazards Statement

Physical Hazards:

H226: Flammable Liquid and Vapour.

Health Hazards:

H315: Causes skin irritation
H350: May cause cancer.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritations.

Environmental Hazards:

H411: Toxic to aquatic life with long lasting effects.

GHS Precautionary Statement

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 surface – no smoking.
P233: Keep container tightly closed.

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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 hands thoroughly after handling.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P281: Use personal protective equipment.

Response:

P301+P310: If Swallowed: Immediately call a POISON CENTER or doctor/physician.
 P302+P352: If on Skin: Wash with plenty of soap and water.
 P303+P361+P353: If on Skin (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
 P321: Specific treatment.
 P331: Do Not induce vomiting.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P362: Take off contaminated clothing and wash before reuse.
 P370+P378: In case of Fire: Use appropriate media for extinction.

Storage:

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

Disposal

P501: Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

Other Hazards Which Do Not Result in Classification:

N/A

Aggravated Medical Condition:

N/A

3. COMPOSITION/ INFORMATION ON INGREDIENTS CAS NUMBER: 64742-82-1

Chemical Name	CAS Number	Concentration
Kerosene (petroleum), hydrosulfurized heavy	64742-81-0	100%

4. FIRST AID MEASURES
Inhalation:

- Specific medical treatment is urgent
- Do not induce vomiting
- Move victim to fresh air

Skin Contact:

- If on skin (or hair): Remove/Take off immediately all contaminated clothing.
- Rinse skin with water/shower.
- If skin irritation occurs: Get medical advice/attention.
- Get immediate medical advice/attention.

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- Remove and isolate contaminated clothing and shoes.
- In case of burns, immediately cool affected skin for as long as possible with cold water.
- Do not remove clothing if adhering to skin.
- Wash skin with soap and water.

Eye Contact

- Call emergency medical service.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

Ingestion

- If swallowed: Immediately call a poison centre or doctor/physician.
- Do not induce vomiting.

Indication of immediate medical attention and notes for physician

- Exposures require specialized first aid with contact and medical follow-up.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.



Medical attention. Emergency shower. Emergency eyewash.

5. FIRE FIGHTING MEASURE

Appropriate Extinguishing Media:

- CO₂
- Alcohol Resistance Foam
- Dry Chemical
- Water Fog

Inappropriate Extinguishing Media:

- Water Jet

Unusual fire & Explosion hazard:

- 1. Hazardous combustion product: Material may produce irritating and highly toxic gases from decomposition by heat and combustion during burning.
- 2. Fire & Explosion hazard:
- Flammable liquid and vapour.
- May violently polymerize and result in fire and explosion.
- Vapours may travel to a source of ignition and ignite,
- Material may produce irritating and highly toxic gases from decomposition by heat and combustion during burning
- May form explosive mixtures at temperatures at or above the flash point.
- Containers may explode when heated.
- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- Spilled material may create fire or explosion hazard.
- May cause vapor explosion hazard indoors, outdoors or in sewers.
- Some of these materials may burn, but none ignite readily.
- Vapours may form explosive mixtures with air.

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Special firefighting procedure / protection of fire fighters:

- Rescuers should put on appropriate protective gear.
- Evacuate area and fight fire from a safe distance.
- Many liquids are lighter than water.
- Most vapours are heavier than air. They will spread along ground and collect in low or confined areas.
- Substance may be transported hot.
- Substance may be transported in a molten form.
- Some may be transported hot.
- Dike fire-control water for later disposal; do not scatter the material.
- Move containers from fire area if you can do it without risk.
- Fire involving Tanks; Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Fire involving Tanks; Cool containers with flooding quantities of water until well after fire is out.
- Fire involving Tanks; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Fire involving Tanks; Always stay away from tanks engulfed in fire
- Fire involving Tanks; For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	<ul style="list-style-type: none"> -Wear appropriate personal protective equipment such as protective gloves, protective clothing, eye protection, face protection, respirator, protective boots, etc. -Keep unnecessary and unprotected personnel away. -Keep upwind, evacuate downwind. -Wear appropriate personal protective equipment as specified in Section 8. -Evacuate immediate area. -Warn personnel of fire, explosion, and health hazard.
Environmental precautions	<ul style="list-style-type: none"> -Do not flush into sewer, river, or any body of water.
Methods and materials for containment and cleaning up	<ul style="list-style-type: none"> -Use only non-sparking tools. -Absorb or cover with dry earth, sand or other non-combustible material and transfer to sealable containers. -Large spills: Dike far ahead of liquid spill for later disposal. -Stop leak, if possible, without personal risk.

7. HANDLING AND STORAGE

Storage / Transport Temperature: Ambient	Loading / Unloading Temperature: Ambient
Ensure all equipment is electrically grounded before beginning transfer operations. Take precautionary measures against static discharge. Keep away from heat and sources of ignition. Avoid breathing mists or vapour. Avoid contact with skin.	

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control Measures/Ventilation

Use local exhaust ventilation to control process.
Provide mechanical ventilation of confined spaces.
Use explosion-proof ventilation equipment.

Occupational Exposure Limits (OEL) Values

- TWA: 200mg/m³ - ACGIH

Personal Protection



Vapor respirator.



Gloves.



Goggles.



Full suit.



Footwear.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Form/Color:	Colourless
Odor:	N/A
Flash Point (TCC ASTM D56):	41 – 47°C
Boiling Point Range:	153 – 200°C
Specific Gravity (15.0/15.0):	0.77 – 0.79
Density (15°C):	N/A
Freezing/Melting Point:	< -60°C
Auto-ignition Temperature:	280 – 470°C
Evaporation Rate (n-Bu Acetate=1):	N/A
Flammability (solid, gas):	N/A
Vapor Pressure (37.8°C):	≤ 240 kPa
Viscosity (40°C):	0.4 – 0.9 Cst
Solubility in Water (20°C):	N/A
Explosive Limits (in air):	N/A
Vapor Density (101.3kPa/air = 1):	N/A
Relative Density:	N/A
Molecular Weight:	N/A
Odor Threshold:	N/A
pH:	N/A
Material Hygroscopic:	N/A
n-Octanol/Water Partition Coefficient:	Log Kow = 4.76 (estimated)
Decomposition temperature:	N/A

10. STABILITY AND REACTIVITY

Hazardous Polymerization:	No	Conditions to Avoid Polymerization:	N/A
Stability:	Stable	Conditions to Avoid Instability:	N/A
Materials and Conditions to Avoid:	Combustibles, Strong oxidizing agents		
Hazardous Decomposition Products:	May emit flammable vapour if involved in fire		

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11. TOXICOLOGICAL INFORMATION**Information of Health Hazardous**

- 1) Acute toxicity: Not classified
 - Oral: Rat(M/F), LD50 > 5,000 mg/kg bw (OECD TG 401, GLP)
 - Dermal: Rabbit(M/F), LD50 > 2,000 mg/kg bw (OECD TG 402, GLP)
 - Inhalation: Rat(M/F), LC50 > 7.63 mg/L 4hr (OECD TG 403, GLP)
- 2) Skin corrosion/irritation: Category 2
 - In skin irritation test with rabbits, irritations were observed (Erythema score=2.56, edema score=1.89) (OECD TG 404, GLP).
- 3) Serious eye damage/irritation: Not classified
 - In eyes irritation test with rabbits, irritations were not observed (Overall irritation score=0.3) (OECD TG 405, GLP).
- 4) Respiratory sensitization: Not available
- 5) Skin sensitization: Not classified
 - In skin sensitization test with guinea pigs, sensitizations were not observed (OECD TG 406, GLP).
- 6) Carcinogenicity: Category 1B
 - KOREA-ISHL: Not listed
 - IARC: Not listed
 - NTP: Not listed
 - ACGIH: Not listed
 - OSHA: Not listed
 - EU Regulation 1272/2008: Carc. 1B
- 7) Germ cell mutagenicity: Not classified
 - Negative reactions were observed in both in-vitro test (Bacterial Reverse Mutation Assay (OECD TG 471, GLP)) and in-vivo test (chromosome aberration assay (OECD TG 475)).
- 8) Reproductive toxicity: Not classified
 - In reproduction/developmental toxicity test with rats(M/F), adverse effects were not observed (NOAEC> 20,000 mg/m3 bw/day) (OECD TG 416, GLP).
- 9) STOT-single exposure: Not classified
 - Acute inhalation exposure to gasoline vapours produced central nervous system depression in human volunteers at the highest concentrations tested (4,320 mg/m3 after 1 h exposure and 51,376 mg/m3 after <10 min exposure).
- 10) STOT-repeated exposure: Not classified
 - Exposure(13week) at all dose levels was associated with hydrocarbon nephropathy in male rats. However, this finding has been generally accepted not to be relevant to human risk assessment (NOAEC >20,000mg/m3 air) (OECD TG 413, GLP).
- 11) Aspiration hazard: Category 1
 - This substance is hydrocarbons, and cause hazard effects to human because of kinematic viscosity (0.4~0.9Cst (40°C))

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12. ECOLOGICAL INFORMATION

Environmental Mobility:	N/A
Environmental Degradability:	N/A
Ecotoxicity:	- Acute toxicity: Not classified - Chronic toxicity: Category 2 1) Fish: 96hr-LL50(Pimephale promelas) =8.2mg/L(GLP) 2) crustacean: - 48hr-EL50(Daphnia magna) =4.5mg/L (OECD TG 202, GLP) - 21d-NOEC (Daphnia magna) =0.11mg/L (OECD TG 211, GLP) 3) Algae: 72hr-EL50(Selenastrum capricornutum) =3.1mg/L (OECD TG 201, GLP)
Bioaccumulation:	Bioaccumulation is expected to be high according to the BCF > 500 (BCF =10~2,500(estimated)).
Mobility in Soil:	Soil absorption is expected according to the Koc>1000 (Koc = 80,030) (estimated).
Other adverse effects:	N/A

13. DISPOSAL CONSIDERATIONS

- Combine with other materials to indicate another route of disposal.
- Recycle, recover or dispose empty drums through a suitably qualified or licensed contractor.
- Ensure compliance with national and local regulations.
- NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers.
- This product is ash less and can be burned directly in appropriate equipment
- Contact Transmare-Chemie or local Authorities for more information.

14. TRANSPORT INFORMATION

	Land	Sea	Air
Class	3	3	3
Packing Group	III	III	III
UN Number	1268	1268	1268
Transport Document Name	Petroleum Distillates, n.o.s, Class 3, UN 1268,	Petroleum Distillates, n.o.s, Class 3, UN 1268,	Petroleum Distillates
Others	Hazchem Code: 3Y	Marine Pollutant: Yes EmS: F-E, S-E Risk Label: 3	
Special precautions for user related to transport or transportation measures			
- In case of fire: F-E (Non-water-reactive flammable liquids) - In case of leakage: S-E (Flammable liquids, floating on water)			

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15. REGULATORY INFORMATION

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

Local Regulation

Workplace Safety and Health Act & Workplace Safety and Health (General Provision)

Regulations:

This product is subjected to the SDS, Labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations:

This Product is not subjected to control under this Act/Regulation.

Fire Safety Act and Fire Safety (Petroleum and Flammable Materials) Regulations:

This product is subjected to the requirement of this regulation.

National and/or International Regulatory Information

- POPs Management Law: N/A
- Information of EU Classification
 - EU487/2013/EEC(CLP)Classification (Classification): Asp.Tox.1, Carc.1B, Muta.1B, STOTRE1
 - EU487/2013/EEC(CLP)Classification(H-code):H304, H350, H340, H372
 - EU487/2013/EEC(CLP)Classification(P-code): P280, P260, P264, P201, P202, P270, P308+P313, P301+P310, P331, P405, P501
- US Federal Regulations
 - *OSHA Process Safety (29CFR1910.119): Not regulated
 - *CERCLA Section 103 (40CFR302.4): Not regulated
 - *EPCRA Section 302 (40CFR355.30): Not regulated
 - *EPCRA Section 304 (40CFR355.40): Not regulated
 - *EPCRA Section 313 (40CFR372.65): Not regulated
- Rotterdam Convention listed ingredients: Not regulated
- Stockholm Convention listed ingredients: Not regulated
- Montreal Protocol listed ingredients: Not regulated

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16. OTHER INFORMATION**Revision Date on 6 March 2023.**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of Transmare-Chemie Company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

Information source and references:

- REACH information on registered substances;
<http://apps.echa.europa.eu/registered/registered-sub.aspx>
- OECD SIDS; <http://webnet.oecd.org/hpv/ui/Search.aspx>
- International Uniform Chemical Information Database (IUCLID);
<http://esis.jrc.ec.europa.eu/>
- National Institute of Technology and Evaluation (NITE);
<http://www.safe.nite.go.jp/english/db.html>
- TOMES-LOLI®; <http://www.rightanswerknowledge.com/loginRA.asp>
- U.S. National library of Medicine (NLM) Hazardous Substances Data Bank (HSDB);
<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>
- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans;
<http://monographs.iarc.fr>
- EPISUITE v4.1; <http://www.epa.gov/opt/exposure/pubs/episuitedl.htm>
- EU Regulation Np. 487/2013/EEC
- Korea Occupational Health & Safety Agency; <http://www.kosha.net>
- National Chemicals Information System; <http://ncis.nier.go.kr/ncis/>
- National Emergency Management Agency-Korea dangerous material inventory management system; <http://www.nema.go.kr/hazmat/main/main.jsp>
- Waste Control Act enforcement regulation attached [1]; <http://www.me.go.kr>
- UN Recommendations on the transport of dangerous goods 18th