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SAFETY DATA SHEET

JAYFLEX™ L9TM



Section 1. Identification

Product name : JAYFLEX™ L9TM

Product description: Ester

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Plasticizer

Uses advised against : This product is not recommended for any industrial, professional or consumer use

other than the Identified Uses above.

Supplier : EXXONMOBIL CHEMICAL SERVICES (SHANGHAI) CO., LTD

Correspondence address:

1099 Zixing Road Minhang District SHANGHAI China

24 Hour Emergency

Telephone

: (+86)0532-83889090 (NRCC)

Supplier General Contact : (+86) 021-23515000

E-Mail : sds-CN.SM@exxonmobil.com

FAX : 86-21-23500826

Supplier : ExxonMobil Chemical Asia Pacific (Regn. No. 52893724C)

(A Division Of ExxonMobil Asia Pacific Pte Ltd - Regn. No. 196800312N)

1 HarbourFront Place

#06-00 HarbourFront Tower One 098633 Singapore

Supplier General Contact: +65 6885 8000

SDS Internet Address : www.sds.exxonmobil.com

Section 2. Hazards identification

Classification of the substance or mixture is in accordance with national standard GB30000 series of Specification/Rules for classification and labeling of chemicals

Emergency overview

Physical state : Liquid. [Clear]
Colour : Colourless
Odour : Mild

Classification of the substance or mixture

: Not classified.

Precautionary statements

Physical and chemical

hazards

: No known significant effects or critical hazards.

Health hazards: No known significant effects or critical hazards.

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Section 2. Hazards identification

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate :

: Not available.

effects

Potential delayed effects : Not available.

Environmental hazards: No known significant effects or critical hazards.

Contains : 1,2,4-benzenetricarboxylic acid, trinonyl ester, branched and linear

Other hazards which do not

result in classification

: None known.

Nota

: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : 1,2,4-benzenetricarboxylic acid, trinonyl ester, branched and linear

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

First aid

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Most important symptoms/effects, acute and delayed

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Section 4. First-aid measures

Potential acute health effects

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Eye contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation: No specific data.Skin contact: No specific data.Eye contact: No specific data.Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

Notes to physician : Treat sym

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

Hazardous combustion

products

: In a fire or if heated, a pressure increase will occur and the container may burst.

: Incomplete combustion products, Oxides of carbon, Smoke, Fume

Special protective actions for fire-fighters

: Use standard firefighting procedures and consider the hazards of other involved materials. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Assure an extended cooling down period to prevent reignition. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

NOTIFICATION PROCEDURES

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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

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Section 6. Accidental release measures

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers. water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Confine the spill immediately with booms. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Warn other shipping. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Precautionary measures to prevent the occurrence of secondary disasters

: Prevent entry into sewers, water courses, basements or confined areas.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Section 7. Handling and storage

Precautions for safe handling

Precautions for operating

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Static Accumulator

This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100x10E-12 Siemens per meter) and is considered a semiconductive, static accumulator if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semiconductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid.

Loading/Unloading **Temperature**

Ambient

Transport Temperature : Ambient **Transport Pressure**

: Ambient

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Section 7. Handling and storage

Conditions for safe storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Storage Temperature Storage Pressure

: Ambient Ambient

Suitable Containers/Packing: Tank Cars, Tank Trucks, Drums

Suitable Materials and Coatings

: Stainless Steel, Teflon, Viton, polypropylene, Nylon, Carbon Steel, aluminium

Unsuitable Materials and

: Natural Rubber, butyl rubber, Vinyls

Coatings

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

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

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Section 8. Exposure controls/personal protection

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

Section 9. Physical and chemical properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance and physical state

Physical state Liquid. [Clear] Colour : Colourless Odour : Mild

Odour threshold Not available. pН Not applicable. **Melting point/freezing point** : Not available. **Boiling point or initial** : Not available.

boiling point and boiling

range

: Closed cup: 284°C (543.2°F) [ASTM D-93] Flash point

Evaporation rate Not available. **Flammability** : Ignitable Lower and upper explosion : Not available.

limit/flammability limit

: <0.08 mm Hg [93 °C] Vapour pressure Relative vapour density : >1 [Air = 1] [Estimated] **Relative density** : 0.972 [Calculated]

Density : 0.972 g/cm³ [20°C (68°F)] [Calculated]

Solubility in water Negligible

Partition coefficient: n-

octanol/water

: 9.7 to 10.5 [OECD 117]

Auto-ignition temperature : Not available. **Decomposition temperature** : Not available.

Viscosity 57 cSt [40 °C] [ASTM D 445]

164.6 cSt [20 °C]

: 589 Molecular weight

Particle characteristics

Median particle size : Not applicable.

Pour point : -54°C [In-house method ,]

Hygroscopic : No

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

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Section 10. Stability and reactivity

Conditions to avoid : High energy sources of ignition. Excessive heat.

Incompatible materials : Strong oxidisers, nitric acid

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result
1,2,4-benzenetricarboxylic acid, trinonyl ester, branched and linear	Rat - Oral - LD50 >5000 mg/kg Rabbit - Dermal - LD50 >3160 mg/kg Rat - Inhalation - LC50 Dusts and mists >5 mg/l [6 hours]

Conclusion/Summary

Inhalation Minimally Toxic. Data available. Based on test data for structurally similar materials.

Test(s) equivalent or similar to OECD Guideline 403

Dermal : Minimally Toxic. Data available. Based on test data for structurally similar materials.

Test(s) equivalent or similar to OECD Guideline 402

: Minimally Toxic. Data available. Based on test data for structurally similar materials. Oral

Test(s) equivalent or similar to OECD Guideline 401

Irritation/Corrosion

Conclusion/Summary

Skin : Negligible irritation to skin at ambient temperatures. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline

May cause mild, short-lasting discomfort to eyes. Data available. Based on test data Eyes

for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 405

: Negligible hazard at ambient/normal handling temperatures. No end point data for Respiratory

material.

Respiratory or skin sensitization

Conclusion/Summary

Skin : Not expected to be a skin sensitizer. Data available. Based on test data for

structurally similar materials. Test(s) equivalent or similar to OECD Guideline 406

Respiratory : Not expected to be a respiratory sensitizer. No end point data for material.

Germ Cell Mutagenicity

Conclusion/Summary : Not expected to be a germ cell mutagen. Data available. Based on test data for

structurally similar materials. Test method unavailable.

Carcinogenicity

Conclusion/Summary : Not expected to cause cancer. No end point data for material. Based on test data for

structurally similar materials.

Reproductive toxicity

Conclusion/Summary : Not expected to be a reproductive toxicant. Data available. Based on test data for

structurally similar materials. Test(s) equivalent or similar to OECD Guideline 414 421

Specific target organ toxicity (single exposure)

Conclusion/Summary : Not expected to cause organ damage from a single exposure. No end point data for

material.

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Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Target organs
1,2,4-benzenetricarboxylic acid, trinonyl ester, branched and linear	Not applicable.	-

Conclusion/Summary

: Not expected to cause organ damage from prolonged or repeated exposure. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 408

Aspiration hazard

Conclusion/Summary

: Not expected to be an aspiration hazard. Based on physico-chemical properties of the material. No end point data for material.

Section 12. Ecological information

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

Toxicity

Conclusion/Summary

Acute toxicity : Not expected to be harmful to aquatic organisms.

Chronic toxicity : Not expected to demonstrate chronic toxicity to aquatic organisms

Persistence and degradability

Biodegradability: Material -- Expected to biodegrade slowly.

Hydrolysis : Material -- Transformation due to hydrolysis not expected to be significant.
 Photolysis : Material -- Transformation due to photolysis not expected to be significant.

Atmospheric Oxidation : Material -- Expected to degrade rapidly in air

Bioaccumulation/Accumulation

Conclusion/Summary: Material -- Potential to bioaccumulate is low.

Mobility in soil

Mobility : Material -- Expected to partition to sediment and wastewater solids. Low solubility and

floats and is expected to migrate from water to the land.

Other ecological information

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored

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Section 13. Disposal considerations

until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Section 14. Transport information

	JT/T617	IMDG	IATA
UN number	Not available.	Not regulated.	Not regulated.
UN proper shipping name	Not available.	-	-
Transport hazard class(es)	Not available.	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

: Use dry chemical, CO₂, water spray (fog) or foam.

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Do not use water jet.

Incompatible materials : Strong oxidisers, nitric acid

Transport in bulk according

to IMO instruments

: Not available.

Section 15. Regulatory information

This material is not considered hazardous according to national standard GB30000 series of Specification/Rules for classification and labeling of chemicals

Refer to below China regulations (if applicable):

The General Rules for preparation of precautionary label for Chemicals (GB 15258-2009)

Regulations on the Safe Management of Hazardous Chemicals

Measures for the Environmental Management Registration of New Chemical Substances

Inventory list

Australia inventory (AIIC) : Not determined.

Canada inventory (DSL-NDSL) : At least one component is not listed in DSL but all such components

are listed in NDSL.

China inventory (IECSC) : All components are listed or exempted.

Japan inventory (CSCL) : All components are listed or exempted.

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Section 15. Regulatory information

Japan inventory (Industrial Safety and

Health Act)

: All components are listed or exempted.

New Zealand Inventory of Chemicals

(NZIoC)

: Not determined.

Philippines inventory (PICCS) : Not determined.

Korea inventory (KECI) : Not determined.

Taiwan Chemical Substances Inventory : Not determined.

(TCSI)

United States inventory (TSCA 8b) : All components are active or exempted.

The national inventory listings are based on the CAS number or numbers listed below.

220582-53-6; 35415-27-1

Section 16. Other information

History

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Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Product code : 1268486

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