

1. Product and Company Identification

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Product Name PHTHALIC ANHYDRIDE FOR SYNTHESIS
Part Number RXSOL-60-6605-249

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Chemical Name	CAS-No	EC-No.	Weight %
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	85-44-9	201-607-5	100 %

3. Hazards Identification

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Signal Word	Danger
Classification of the substance or mixture	Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Respiratory sensitization (Category 1), H334 Skin sensitization (Category 1), H317 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 For the full text of the H-Statements mentioned in this Section, see Section 16
Hazard statement(s)	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.
Precautionary statement(s)	P280 Wear protective gloves/ eye protection/ face protection. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
Supplemental Hazard Statements	None
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First Aid Measures

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General notes	Consult a physician. Show this material safety data sheet to the doctor in attendance
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

In case of skin contact	Wash off with soap and plenty of water. Consult a physician
Eye Contact	Flush thoroughly with water. If irritation occurs, get medical assistance.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
Most important symptoms/effects both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.No data available

5. Fire-fighting Measures

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General information	NA.
Inappropriate Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	Carbon oxides Combustible.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary
Unsuitable extinguishing media	NA
Hazardous combustion products	NA
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	No data available

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

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Advice on safe handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols
Advice on protection against fire and explosion	Provide appropriate exhaust ventilation at places where dust is formed.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. For precautions see section 2.2
Conditions for safe storage, including any incompatibilities	Storage Keep container tightly closed in a dry and well-ventilated place. Store in cool place.
Storage class	Storage class (TRGS 510): 11: Combustible Solids
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

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Exposure Limit Values	
Exposure limits/standards (Note Exposure limits are not additive)	

Country	Chemical Name	Form	Limit/Standard	Note
DE	NAPHTHA (PETROLEUM),	64742-94-5	RCP -1200 mg/m3 /171 ppm	Total Hydrocarbons
	HYDROTREATED HEAVY		TWA	

Engineering Controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

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

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Half-face filter respirator Type A filter material. For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded

Hand Protection

Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: If prolonged or repeated contact is likely, chemical-resistant gloves are recommended. If contact with forearms is likely, wear gauntlet-style gloves. Nitrile

Eye Protection

If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection

Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended

Environmental controls

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.



Gloves Suit

9. Physical and chemical properties

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Physical State

Liquid

Form

Clear

Colour	Colourless
Odour	Mild Petroleum/Solvent
Odor Threshold	N/D
Relative Density (at 15 °C)	N/D
Boiling Point	183 °C (361F) - 208 °C (406F)
Flash Point	61 °C (142F) - 66 °C (151F)
Density (at 15 °C):	776 kg/m ³ (6.48 lbs/gal, 0.78 kg/dm ³)
Evaporation Rate	0.7
pH:	N/D
Flammability (Solid, Gas):	N/A
Flammable Limits (Approximate volume % in air)	LEL: 0.7 UEL: 5.3
Explosive limits	Lower explosion limit (LEL) - 0.6 vol% Upper explosion limit (UEL) - 7 vol%
Vapour pressure	0.269 kPa (2.02 mm Hg) at 20 °C 0.811 kPa (6.1 mm Hg) at 38°C
Log Pow (n-Octanol/Water Partition Coefficient):	N/D
Vapour Density	> 1 at 101 kPa
Secific Gravity	0.878
Decomposition Temperature	N/D
Solubility in Water:	Negligible
Autoignition Temperature	>200 °C (392F)
Solubility in Water	Negligible
Kintic viscosit	0.87 mm ² /s at 20 °C
Vapor Pressure:	0.06 kPa at 20 °C
Molecular Weight	0.07 kPa (0.53 mm Hg) at 20 °C 0.24 kPa (1.8 mm Hg) at 38C 0.5 kPa (3.75 mm Hg) at 50 °C
Oxidizing Properties:	See Hazards Identification Section.
Freezing Point:	14°C (7°F)
Melting Point:	N/D
Hygroscopic:	No
Evaporation Rate (n-butyl acetate = 1)	0.05
Log Pow (n-Octanol/Water Partition Coefficient)	N/D
Viscosity	1.3 cSt (1.3 mm ² /sec) at 40 C 1.64 cSt (1.64 mm ² /sec) at 25 °C
Freezing Point	5000 mg/m ³ (Vapour)
rritation	No end point data for material
Ingestion	Acute Toxicity (Rat): LD50 > 5000 mg/kg
Skin	Acute Toxicity (Rabbit): LD50 > 5000 mg/kg
Serious Eye Damage/Irritation	Data available.
Sensitisation	No end point data for material.
Skin Sensitization	Data available.
Aspiration	Data available.
Germ Cell Mutagenicity	Data available.
Carcinogenicity	Data available.
Lactation	No end point data for material.
Single Exposure	NA

12. Ecological information

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Ecotoixicity	Material -- Not expected to be harmful to aquatic organisms. Material -- Not expected to demonstrate chronic toxicity to aquatic organisms
mobility	Material -- Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.
Biodegradation	Material -- Expected to be inherently biodegradable

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
VOC	Yes

13. Disposal considerations

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Waste treatment method	Sewage disposal-relevant information . Do not empty into drains.
Waste treatment of containers/packagings	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 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 PRESSURIZE, 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.
List of wastes	Proposed waste code(s) for the used product: 07 01 04x Other organic solvents, washing liquids and mother liquors
Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

14. Transport information

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China List of Dangerous Goods (GB 12268 - 2012)	Not Regulated for Land Transport [Footnote: Regulated as Category 5 Class 2 under the Dangerous Goods Regulation for Hong Kong.]
INTERNATIONAL CLASSIFICATION FOR TRANSPORT	SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code. Marine Pollutant: No
SEA (MARPOL 73/78 Convention - Annex II)	Product Name: NOXIOUS LIQUID, N.F.,(9) N.O.S., (EXXSOL D60(S), contains iso-and cycloalkanes (C12+)) Ship type: 3 Ship type: 3
AIR (IATA)	Not Regulated for Air Transport

15. Regulatory information

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The hazard classification for this material is in accordance with the General Rules for Classification and Hazard Communication of Chemicals (GB 13690-2009).	
The General Rules for preparation of precautionary label for Chemicals Regulated (GB 15258-2009)	
Law of the People's Republic of China on Prevention and Control of Environmental Pollution by Solid Waste	See Disposal Considerations section
Listed or exempt from listing/notification on the following chemical inventories	AICS, DSL, ENCS, IECSC, KECI, PICCS, TCSI, TSCA SECTION

16. Other information

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Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no
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