Product Name Solvent Naphtha M
Part Number RXSOL-19-1977-208

Product Use Solvent
Synonyms Solvent 110

Company Details:

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2. Composition / Information on ingredients

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Chemical Name	CAS number	EC number	Weight %	Registration number (REACH)
,	10, 64742-94-5 1%	919-284-0	100 %	01-2119463588-24-000 3
Hazardous ingredien	ts			
Name of Substance	Identifier	Wt%	Class	sification acc. to GHS
Naphthalene	CAS No 91-20-3	1 -10	Acute	Tox. 4 / H302
			Carc.2	2 / H351
			Aquat	ic Acute 1 / H400
			A	. Ol

Aquatic Chronic 1 / H410 Acute

Tox. 4 / H302

Carc.2 / H351

Aquatic Acute 1 / H400

Aquatic Chronic 1 / H410

3. Hazards Identification

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^{*} All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume. Concentration values may vary.

Classification according to Regulation (EC) No 1272/2008 (CLP)

Signal Word Danger
Hazard class Category
carcinogenicity Cat. 2

Specific target organ toxicity - single exposure (narcotic effects, Cat. 3
drowsi⊠ness)

Aspiration hazard Cat. 2

Hazardous to the aquatic environment - chronic hazard Cat. 1

The most important adverse physicochemical, human health and environmental effects May be fatal if swallowed and enters airways

H304 May be fatal if swallowed and enters airways.

H336 May be fatal if swallowed and enters airways.

H351 May cause drowsiness or dizziness.

H411 Suspected of causing cancer. Toxic to aquatic life with long lasting effects

H226 Flammable liquid and vapor.

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 surfaces. -- No smoking. P233: Keep container tightly closed. P240: Ground / bond container and receiving equipment. P241: Use explosion-proof electrical, ventilating, and lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. 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. P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. P332 + P313: If skin irritation occurs: Get medical advice/ attention. P370 + P378: In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish. P403 + P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. P501: Dispose of contents and container

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P331 Do NOT induce vomiting.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Category 3

Category 2. Specific target organ toxicant (central nervous system): Category 3. Specific target organ toxicant (respiratory irritant): Category 3. Aspiration toxicant: Catego

Flammable liquid: Category 3. Carcinogen: Category 2. Specific target organ toxicant (central nervous system): Category 3. Specific target organ

Hazard statements

Precautionary statements - prevention

Precautionary statements - response

Precautionary statements - storage

Flammable liquid

Carcinogen:

GHS Hazard Classifications:

toxicant (respiratory irritant): Category 3. Aspiration toxicant: Category 1

Precautionary statements - disposal P501 Dispose of contents/container to industrial combustion plant

Other hazard information: Supplemental hazard information. EUH066 Repeated exposure may cause

skin dryness or cracking.

Additional labelling requirements EUH066 Repeated exposure may cause skin dryness or cracking

4. First Aid Measures

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General notes Do not leave affected person unattended. Remove victim out of the

danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms per?sist, seek medical advice. In case of unconsciousness place

person in the recovery position. Never give any thing by mouth.

Indication of any immediate medical attention and special treatment None

needed

Inhalation

FIRE FIGHTING

Skin Contact Wash with plenty of soap and water.

Eye Contact Irrigate copiously with clean, fresh water, holding the eyelids apart.

Remove contact lenses, if present and easy to do. Continue rinsing. In all

cases of doubt, or when symptoms persist, seek medical advice.

If breathing is irregular or stopped, immediately seek medical assistance

and start first aid actions. Provide fresh air

Ingestion Do NOT induce vomiting. Rinse mouth with water (only if the person is

conscious)

Most important symptoms/effects both acute and delayed Choking and suffocation risks. Narcotic effects. Deficits in perception

and coordination, reaction time, or sleep?lines

Notes to Physician Treat symptomatically

HMIS Hazard ID Health: 1* Flammability: 2 Reactivity: 0

5. Fire-fighting Measures

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General information Extinguishing materials should be selected according to the surrounding

area. The product itself is not combustible.

Appropriate Extinguishing Media Use water fog, foam, dry chemical or carbon dioxide (CO2) toextinguish

flames

Inappropriate Extinguishing Media: Straight Streams of Wate

Flammability of the Product Flammable.

Suitable extinguishing media Carbon dioxide (CO2), BC-powder, foam, alcohol resistant foam, water

mist

Unsuitable extinguishing media water jet

Hazardous combustion products Carbon monoxide (CO), Carbon dioxide (CO2)

Advice for firefighters Wear breathing apparatus if exposed to vapours/dust/spray/gases. Co-

ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a

reasonable distance. Keep containers cool with water spray.

Special hazards arising from the substance or mixture

May produce toxic fumes of carbon monoxide if burning.

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use

standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposedsurfaces

and to protect personne

Unusual Fire Hazards

Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.

Hazardous material. Firefighters should consider protective equipment

indicated in Section 8

Hazardous Combustion Product Smoke, Fume, Oxides of carbon, Incomplete combustion products

FLAMMABILITY PROPERTIES

Flash Point [Method]: 46°C (115°F) [ASTM D-56]

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 6.2 Autoignition Temperature: $485^{\circ}\text{C} (905^{\circ}\text{F})$

Extinguishing media which must not be used for safety reasons: High power water jet.

Special protective equipment for fire-fighters: In case of fire. Fire fighters should wear positive pressure self-contained

breathing apparatus (full face-piece type).

Additional information: Contaminated fire-fighting water must be collected separately.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures Remove persons to safety. Avoid inhaling sprayed product. Wearing of

For non-emergency personnel

suitable protective equipment (includ@ing personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contam@ination of skin, eyes and personal clothing. Take off immediately all contaminated clothing and wash it before reuse

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases

Methods and material for containment and cleaning up Advices on how to Covering of drains.

contain a spill

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage

(sawdust, kieselgur (diatomite), sand, uni versal binder).

Appropriate containment techniques

Use of adsorbent materials. - covering of drains

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area

Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

Notification Procedure

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

Protective Measure

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective

measures may be necessary, depending on the specific circumstances

and/or the expert judgment of the emergency responders.

Spillage

Absorb with an inert material and put the spilled material in an appropriate waste disposal.Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Personal Protection

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precaution

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment

7. Handling and Storage

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Measures to prevent fire as well as aerosol and dust generation

Incompatible substances or mixtures

Advice on general occupational hygiene

Packaging compatibilities

Handling

Storage

Storage Temperature Storage Pressure

Suitable Containers/Packing:

Suitable Materials and Coatings (Chemical Compatibility

Unsuitable Materials and Coatings

Hygiene measures

Specific end use(s)

Use only in well-ventilated areas. Use local and general ventilation.

Conditions for safe storage, including any incompatibilities

Managing of associated risks

Observe hints for combined storage.

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protect? ive equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed? ing

Only packagings which are approved (e.g. acc. to ADR) may be used. Suitable materials and coatings for container/equipment: Carbon Steel, Stainless Steel, Polyester, Polytetra fluoroethylene (PTFE), Polyvinyl Alcohol (PVA) Unsuitable Materials and Coatings for container/equipment: Butyl Rubber, Natural Rubber, Ethylene-propyl ene-diene monomer (EPDM), Polystyrene, Polyethylene, Polyacrylonetrile

Avoid breathing mists or vapors. Avoid all personal contact. Potentially toxic/irritating fumes/vapors may be evolved from heated or agitated material. Use only with adequate ventilation. Do not enter storage areas or confined spaces unless adequately ventilated. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended

The container choice, for example storage vessel, may effect static accumulation and dissipation. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Storage containers should be grounded and bonded. Fixed storage containers, transfer containers and associated equipment should be grounded and bonded to prevent accumulation of static charge

[Ambient]

[Ambient]

Railcars; Tank Trucks; Barges; Drums; Tankers

Carbon Steel; Stainless Steel; Copper Bronze; Inorganic; Inorganic Zinc Coatings; Epoxy Phenolic; Polyamide Epoxy; Amine Epoxy; Viton

Vinyl Coatings; Butyl Rubber; Natural Rubber; Ethylene proplyene-diene monomer (EPDM); Polyethylene; Polystyrene; PVC; Polyacrylonitrile; Polypropylene

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

See attached exposure scenarios

Exposure Limit Values

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

Country	Chemica Name	al CAS.No	Identifier	TWA [ppm	TWA [mg/m ³	STEL [ppm]	STEL [mg/m ³]	Source
DE	Hydrocarbons, C10,Aromat is,>1% Naphthalene		AGW		50		50	TRGS 900
DE	Naphthalene	91-20-3	AGW	0.4	2	1.6	8	TRGS 900
EU	Naphthalene	91-20-3	IOELV	10	50			91/322/EEC
IE	Naphthalene	91-20-3	OELV	10	50	15	75	S.I. No. 619 of 2001

Relevant DNELs/DMELs/PNECs and other threshold levels

Human health values

Endpoint	Threshold level	Protection gexposure	goal, route of	f Used in		Exposure time
DNEL	12.5 mg/kg	Human, dern	nal	worker (inc	dustry)	chronic - systemic effects
DNEL	151 mg/m^3	Human, inha	latory	worker (inc	dustry)	chronic - systemic effects
DNEL	7.5 mg/kg	Human, oral		consumer households	·*	ate chronic - systemic effects
DNEL	7.5 mg/kg	Human, inha	latory	consumer households	·*	ate chronic - systemic effects
DNEL	32 mg/m ³	Human, dern	nal	consumer households	· · ·	ate chronic - systemic effects
Name of substance	Endpoint	Threshold level	Protection g of exposure	oal, route	Used in	Exposure time
Naphthalene	DNEL	25 mg/m ³	Human, inhal	atory v	worker (industr	y chronic - local effects
Naphthalene	DNEL	3.57 mg/kg	Human, inhal	atory v	worker (industi	y chronic - systemic effcte
Naphthalene	DNEL	25 mg/m ³	Human, inhal	atory v	worker (industi	y chronic - systemic effcte
Name of substance	Endpoint	Threshold level	Environmenta compartment		Organism	Exposure time
Naphthalene	PNEC	2.9 mg/l	sewage t plant (STP)	reat[]ment r	nicroorganism	short-term (single instanc

Exposure controls

Appropriate engineering controls

Technical measures and the appliance of appropriate working methods take priority over the use of personal protective equipment. Safety and necessary control measures vary according to exposure conditions. Appropriate measures are: Open windows, door, to allow sufficient ventilation. If this is not possible employ a fan to increase air ex? change.

Individual protection measures (personal protective equipment)

Use safety goggle with side protection.

Eye/face protection

Follow applicable regulations. Engineering Control 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 uses For activities in enclosed areas at elevated Respiratory Protection temperatures of the substance, local extraction or explosion protec ted ventilation equipment is recommended. In case this is not sufficient for the intended use, then apply a suit able respiratory protection according to EN 1 Hand Protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Short-term contact with the skin: Disposable gloves Long-term contact with the skin: Gloves with long cuffs Check leaktightness/impermeability prior to use Use safety goggle with side protection. Eye\face Protection: Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. **Exposure Limits** TWA: 100 (ppm) [Canada] TWA: 435 (mg/m3) [Canada] TWA: 434 STEL: 651 (mg/m3) from ACGIH (TLV) [United States] TWA: 100 STEL: 150 (ppm) from ACGIH (TLV) [United States] Consult local authorities for acceptable exposure limits. Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping **Environmental Protection** 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

Note

Limits/Standards shown for guidance only.

Physical State Liquid
Form Clear
Colour Colourless
Odour pungent
Odor Threshold N/D

Relative Density (at 15 °C)

0.874

 Boiling Point
 160?型?230 °C (ASTM D 86)

 Flash Point
 >62 °C (ASTM D 93)

 Density (at 15 °C):
 0.8?型?1 g /cm³ at 15 °C

Evaporation Rate 0.7

pH: Not determine

Flammability (Solid, Gas): N/A

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
 3.7

 Secific Gravity
 0.878

 Decomposition Temperature
 N/D

 Solubility in Water:
 Negligible

 Autoignition Temperature
 485°C (905°F)

 Solubility in Water
 Not Determine

Kintic viscosit0.8?□?2 mm²/s at 20 °CVapor Pressure:0.06 kPa at 20 °C

Molecular Weight 121
Oxidizing Properties: None
Freezing Point: 14°C (7°F)
Melting Point: N/D
Hygroscopic: No

10. Stability and reactivity

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Recativity This material is not reactive under normal ambient conditions

Chemical Stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure (see below "Conditions").

to avoid").

Possibility of hazardous reactions No known hazardous reactions.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking

Hints to prevent fire or explosion Use explosion-proof electrical/ventilating/lighting/equipment. Take

precautionary measures against static discharge.

Incompatible materials oxidisers

Hazardous Decomposition Products

No known hazardous decomposition products

Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions None

under normal processing

Classification

Acute toxicity

Aspiration hazard

Exposure route Endpoint LD50 oral LD50 dermal inhalation: vapour LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitisation Summary of evaluation of the CMR properties Specific target organ toxicity (STOT) Specific target organ toxicity - repeated exposure Classification according to GHS (1272/2008/EC, CLP)

Shall not be classified as acutely toxic.

Value Species 6,318 mg/kg rat >2,000 mg/kg rabbit >4,688 mg/l /4h rat

Shall not be classified as corrosive/irritant to skin

Shall not be classified as seriously damaging to the eye or eye irritant

Shall not be classified as a respiratory or skin sensitiser

Suspected of causing cancer. Shall not be classified as germ cell mutagenic. Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Shall not be classified as a specific target organ toxicant (repeated exposure)

May be fatal if swallowed and enters airways.

1.Inhalation

Hazard ClassAcute Toxicity: (Rat) Minimally Toxic. Based on test data 4 hour(s) LC50 >6193 for the material. Test(s)equivalent mg/m3 (Max attainable vapor or similar to OECD Guideline 403 conc.)

Irritation: No end point data for May be irritating to the respiratory

material

tract. The effects are reversible. Based on assessment

the components.

2.Ingestion

Acute Toxicity (Rat): LD50 3492 Minimally Toxic. Based on test data

mg/kg

for the material. Test(s) equivalent

or similar to OECD Guideline 401

available

Corrosion/Irritation: Data Mildly irritating to skin with prolonged exposure. Based on test data for the material. Test(s) equivalent or similar to OECD

Guideline 404

4.Eye

Serious

Data availabl

Eye Damage/Irritation: May cause mild, short-lasting discomfort to eyes. Based on test

data for the material. Test(s) equivalent or similar

OECD Guideline 405

Repeated Exposure: Data available Not expected to cause organ

damage from prolonged or repeated exposure. Based on test data for structurally similar materials. Test(s) equivalent or similar to

OECD Guideline 408 452