

Nitrorace™ 90

Identification of the material and supplier

Material Safety Data Sheet

Product name

Nitrorace™ 90

1 .

:

ADG : FLAMMABLE LIQUID, N.O.S. (nitromethane, methanol)

Names

Area of application Industrial applications.

Material uses Fuel.

Uses

:

:

Product type : Liquid.

VP Racing Fuels

7124 Richter Rd

Elmendorf, TX 78112

Supplier/Manufacturer :

CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887

CHEMTREC Australian Phone numbers CRM:00674675

Australia (local dial – based in Sydney): (02) 8014 4880

Australia (outside Australia): +61 280144880

Emergency telephone :

number

Conforms to : National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition -NOHSC:2011(2003) (Australia).

IDENTIFICATION OF SUPPLIER

Importer Name VP RACING FUELS Pty Ltd

Address Unit 24

85-115 Alfred Road

Chipping Norton NSW 2170

Telephone Number 02 9723 4233

Emergency Telephone 0421 116 838

2 . Hazards identification

Safety phrases S36/37- Wear suitable protective clothing and gloves.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

:

Classification R5, R10

T; R23/24/25, R39/23/24/25

:

Risk phrases R5- Heating may cause an explosion.

R10- Flammable.

R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25- Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

:

Statement of

hazardous/dangerous nature

: HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Mixture

Ingredient name CAS number Concentration

nitromethane 75-52-5 60 - 100

methanol 67-56-1 10 - 30

: Yes.

3 . Composition/information on ingredients

There are no additional 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.

4 . First-aid measures

Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Clean shoes thoroughly before reuse. Get medical attention immediately.

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Eye contact

Skin contact

Inhalation

:

:

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4 . First-aid measures

Advice to doctor In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

:

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Ingestion :

Special protective

equipment for fire-fighters

Fire-fighters' protective clothing will only provide limited protection.

Highly explosive in the presence of the following materials or conditions: oxidising

agents

Special remarks on explosion hazards

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

Extinguishing media

:
:

5 . Fire-fighting measures

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. First move people out of line-of-sight of the scene and away from windows. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Do not fight fire when it reaches the material. Withdraw from fire and let it burn.

Flammable liquid. Heating may cause an explosion. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground.

Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazchem code : •3YE

Special exposure hazards :

Do not use water jet.

Suitable :

Not suitable :

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

nitrogen oxides

Special protective

equipment for fire-fighters

: Fire-fighters' protective clothing will only provide limited protection.

Environmental precautions

Personal 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).

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

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6 . Accidental release measures

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment.

Dispose of via a licensed waste disposal contractor.

Methods for cleaning up

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6 . Accidental release measures

Large spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. 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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Handling

Storage

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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Keep away from heat and flame. Empty containers retain product residue and can be hazardous. Do not reuse container.

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. 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.

:
:

7 . Handling and storage

Engineering measures Use only with adequate ventilation. Engineering controls may be required to control

the primary or secondary risks associated with this product. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Exposure controls

:

nitromethane **ASCC (Australia, 8/2005).**

TWA: 50 mg/m³ 8 hour(s).

TWA: 20 ppm 8 hour(s).

methanol **ASCC (Australia, 8/2005). Absorbed through skin.**

STEL: 328 mg/m³ 15 minute(s).

STEL: 250 ppm 15 minute(s).

TWA: 262 mg/m³ 8 hour(s).

TWA: 200 ppm 8 hour(s).

Ingredient name Exposure limits

8 . Exposure controls/personal protection

Occupational exposure limits

Recommended monitoring

procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

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8 . Exposure controls/personal protection

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.

Eye 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.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection Chemical-resistant gloves.

Respiratory protection

:
:

Skin protection

:
:

: Safety glasses.

Hygiene measures : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

Physical state

Melting point

Liquid. [Clear.]

-28.88°C (-20°F)

Odour Characteristic.

Colour Yellow.

Evaporation rate (butyl acetate = 1)

1.37 (butyl acetate = 1)

Auto-ignition temperature

Flash point

417.85°C (784.1°F)

Closed cup: <34°C (<93.2°F)

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:
:
:
:

Relative density : 1.139

⋮
⋮
⋮
⋮
Vapour density : 2.1 [Air = 1]

9 . Physical and chemical properties

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Stability The product is stable.

Materials to avoid Reactive or incompatible with the following materials: oxidizing materials.

⋮
⋮
⋮

Conditions to avoid Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

⋮

10 . Stability and reactivity

11 . Toxicological information

Potential acute health effects

Inhalation Toxic by inhalation. Danger of very serious irreversible effects. Can cause central nervous system (CNS) depression. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

⋮

Ingestion Toxic if swallowed. Danger of very serious irreversible effects. Can cause central nervous system (CNS) depression.

⋮

Skin contact Toxic in contact with skin. Danger of very serious irreversible effects. May cause skin irritation.

⋮

Eye contact : May cause eye irritation.

Acute toxicity

Product/ingredient name Result Species Dose Exposure

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11 . Toxicological information

Potential chronic health effects

Carcinogenicity

Mutagenicity

Teratogenicity

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

⋮
⋮
⋮

Skin

Ingestion

Inhalation Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue

dizziness/vertigo
unconsciousness
No specific data.

Adverse symptoms include the following:

irritation
redness
dryness
cracking

Over-exposure signs/symptoms

:
:
:

Target organs Contains material which may cause damage to the following organs: liver, gastrointestinal tract, upper respiratory tract, skin, eyes, central nervous system (CNS).

:

nitromethane LD Dermal Rabbit >2 g/kg -

LD50 Oral Rat 940 mg/kg -

LDLo

Intraperitoneal

Rat 1500 mg/kg -

methanol LD50 Dermal Rabbit 15800 mg/kg -

LD50 Oral Rat 5600 mg/kg -

LC50 Inhalation

Gas.

Rat 64000 ppm 4 hours

Developmental effects

Fertility effects

No known significant effects or critical hazards.

No known significant effects or critical hazards.

:
:

Eyes : Adverse symptoms include the following:

pain or irritation

watering

redness

Chronic effects : No known significant effects or critical hazards.

12 . Ecological information

Aquatic ecotoxicity

nitromethane - Acute LC50

<278000 ug/L

Fresh water

Fish - Fathead

minnow -

Pimephales

promelas

96 hours

methanol - Acute EC50

12700000 ug/L

Fresh water

Fish - Bluegill -

Lepomis

macrochirus -

Juvenile

(Fledgling,

Hatchling,
Weanling) - 3.07

g

96 hours

- Acute LC50

2500000 ug/L

Marine water

Crustaceans -

Common shrimp,

sand shrimp -

48 hours

Product/ingredient name Test Result Species Exposure

Environmental effects : No known significant effects or critical hazards.

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12 . Ecological information

LogP_{ow} BCF Potential

Bioaccumulative potential

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

Product/ingredient name

methanol 5.9 - high

Crangon crangon

- Adult

- Acute LC50 3289

mg/L Fresh water

Daphnia - Water

flea - Daphnia

magna - Neonate

- <24 hours

48 hours

Methods of disposal : The generation of waste should be avoided or minimised wherever possible.

Empty

containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

13 . Disposal considerations

14 . Transport information

International transport regulations

ADG FLAMMABLE LIQUID, N.O.S.

(nitromethane, methanol)

3 II

IMDG FLAMMABLE LIQUIDS, N.O.S.

(Methane, nitro-, Methanol)

3 II

FLAMMABLE LIQUIDS, N.O.S.

(Methane, nitro-, Methanol)

IATA UN1993 3

FLAMMABLE LIQUID, N.O.S. 3

(nitromethane, methanol)

UN1993 II

Regulatory information

UN

number

Proper shipping name Classes PG* Label

II

UN1993

UN1993

ADR

Additional information

Hazard identification

number

33

Limited quantity

LQ4

CEFIC Tremcard

30GF1-I+II

-

Emergency schedules (EmS)

F-E, _S-E_

Passenger and Cargo

AircraftQuantity

limitation: 5 L

Packaging instructions:

305

Cargo Aircraft Only

Quantity limitation: 60 L

Packaging instructions:

307

Limited Quantities -

Packaging : 396 Net Pound drum

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14 . Transport information

PG* : Packing group

Passenger Aircraft

Quantity limitation: 1 L

Packaging instructions:

Y305

Australia inventory (AICS) : All components are listed or exempted.

15 . Regulatory information

Standard for the Uniform Scheduling of Drugs and Poisons

Control of Scheduled Carcinogenic Substances

Ingredient name Schedule

No listed substance

6

16 . Other information

VP RACING FUELS Pty Ltd 02 9723 4233

VP RACING FUELS Ltd – Emergency Number 0421 116838

Police and Fire Brigade 000

Person who prepared the
MSDS

:

History

Date of issue

Date of previous issue

:

:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Version :

Atrion Regulatory Services, Inc.

4/15/2010.

7/31/2009.

1.01

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