SAFETY DATA SHEET

1. Identification

Product identifier NOS® Racing Formula Octane Booster

Other means of identification

Synonyms 12012

Recommended use Fuel Additive

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ITW Permatex Canada

Address 35 Brownridge Road, Unit 1

Halton Hills, ON L7G 0C6

Canada

Telephone Phone: 1-905-693-8900

e-mail Not available.

Emergency phone number Emergency Telephone: 1-877-504-9352

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

Label elements

Hazard symbol None
Signal word None

Hazard statement The product and/or mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Other hazards None known.

Supplemental information This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as

per paragraph 12(j); Schedule 1 (Non-Application of Part II).

Exempt - Consumer product

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Kerosene		8008-20-6	60 - 100
Distillates (petroleum), light hydrotreated		64742-47-8	3 - 7
Solvent naphtha (petroleum), heavy aromatic		64742-94-5	3 - 7
Methyl cyclopentadienyl manganese tricarbonyl		12108-13-3	3 - 7
Stoddard solvent		8052-41-3	3 - 7

Composition comments This product is regulated under the CCCR Criteria (Consumer Chemicals and Containers

Regulations, 2001). WHMIS requirements are not applicable.

4. First-aid measures Inhalation If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately. Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Skin contact Discard or wash well before reuse. Obtain medical attention if irritation persists. Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for Eye contact 15 minutes. Obtain medical attention immediately. Obtain medical attention immediately. Do not induce vomiting. If vomiting occurs naturally, have Ingestion victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Harmful if inhaled. May cause drowsiness or dizziness. Most important Aspiration may cause pulmonary oedema and pneumonitis. Symptoms may include stomach symptoms/effects, acute and distress, nausea or vomiting. delayed Components of the product may be absorbed into the body through the skin. Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision. Indication of immediate Symptoms may be delayed. medical attention and special treatment needed Immediate medical attention is required. Ensure that medical personnel are aware of the **General information** material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children. 5. Fire-fighting measures Suitable extinguishing media Dry chemical. Carbon dioxide. Foam. Water spray or fog. Unsuitable extinguishing Not available. media Specific hazards arising from Firefighters should wear a self-contained breathing apparatus. the chemical Special protective equipment Firefighters should wear full protective clothing including self contained breathing apparatus. and precautions for firefighters 6. Accidental release measures Personal precautions, Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep protective equipment and people away from and upwind of spill/leak. emergency procedures Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or Methods and materials for confined areas. Before attempting clean up, refer to hazard data given above. Small spills may be containment and cleaning up absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use. **Environmental precautions** Do not discharge into lakes, streams, ponds or public waters. 7. Handling and storage Precautions for safe handling Use good industrial hygiene practices in handling this material. DO NOT get in eyes, on skin or clothing. Use only with adequate ventilation. Avoid breathing vapours or mists of this product. Keep container tightly closed. Wash thoroughly after handling. Keep out of reach of children. Conditions for safe storage, Keep away from heat, open flames or other sources of ignition. including any incompatibilities Do not store at temperatures above 120°F (49°C). Store in a closed container away from incompatible materials. 8. Exposure controls/Personal protection Occupational exposure limits **US. ACGIH Threshold Limit Values** Components **Type** Value Form

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200 mg/m3

Non-aerosol.

TWA

Kerosene (CAS 8008-20-6)

US. ACGIH Threshold Limit Values Components	s Type	Value	Form
Methyl cyclopentadienyl manganese tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm	
Canada. Alberta OELs (Occupatio Components	nal Health & Safety Code, So Type	chedule 1, Table 2) Value	Form
Distillates (petroleum), light hydrotreated (CAS	TWA	200 mg/m3	Vapor.
64742-47-8)			
Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Vapor.
Methyl cyclopentadienyl manganese tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3	
Stoddard solvent (CAS 8052-41-3)	TWA	572 mg/m3	
· · · · · · · · · · · · · · · · · · ·		100 ppm	
Canada. British Columbia OELs. (ts for Chemical Substances, O	ccupational Health and
Safety Regulation 296/97, as amer Components	nded) Type	Value	Form
Distillates (petroleum), light	TWA	200 mg/m3	Non-aerosol.
hydrotreated (CAS 64742-47-8)		230 mg/mg	110.11 40.10001.
Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.
Methyl cyclopentadienyl manganese tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.
Stoddard solvent (CAS 8052-41-3)	STEL	580 mg/m3	
·	TWA	290 mg/m3	
Canada. Manitoba OELs (Reg. 217	7/2006, The Workplace Safety	/ And Health Act)	
Components	Туре	Value	Form
Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.
Methyl cyclopentadienyl manganese tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm	
Canada. Ontario OELs. (Control o Components	f Exposure to Biological or 0 Type	Chemical Agents) Value	Form
Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.
Methyl cyclopentadienyl manganese tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.

Canada. Ontario OELs. (Control of E Components	xposure to Biologica	ai or Chemicai Agents) Value	Form
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm	
Canada. Quebec OELs. (Ministry of I Components	_abor - Regulation R Type	especting the Quality of the Work En Value	vironment)
Methyl cyclopentadienyl manganese tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	TWA	1590 mg/m3	
		400 ppm	
Stoddard solvent (CAS 8052-41-3)	TWA	525 mg/m3	
logical limit values No biolo	ogical exposure limits	100 ppm noted for the ingredient(s).	
•	ogical exposure illilits	noted for the ingredient(s).	
osure guidelines Canada - Alberta OELs: Skin designa	ation		
Distillates (petroleum), light hydroti 64742-47-8)		Can be absorbed through the skin.	
Kerosene (CAS 8008-20-6) Methyl cyclopentadienyl manganese tricarbonyl (CAS		Can be absorbed through the skin. Can be absorbed through the skin.	
12108-13-3) Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)		Can be absorbed through the skin.	
Canada - British Columbia OELs: Sk	in designation		
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)		Can be absorbed through the skin.	
Kerosene (CAS 8008-20-6) Methyl cyclopentadienyl manganese tricarbonyl (CAS 12108-13-3)		Can be absorbed through the skin. Can be absorbed through the skin.	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)		Can be absorbed through the skin.	
Canada - Manitoba OELs: Skin desig	ınation		
Kerosene (CAS 8008-20-6) Methyl cyclopentadienyl mangane: 12108-13-3)	se tricarbonyl (CAS	Can be absorbed through the skin. Can be absorbed through the skin.	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)		Can be absorbed through the skin.	
Canada - Ontario OELs: Skin design	ation		
Kerosene (CAS 8008-20-6) Methyl cyclopentadienyl manganes 12108-13-3)	se tricarbonyl (CAS	Can be absorbed through the skin. Can be absorbed through the skin.	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)		Can be absorbed through the skin.	
Canada - Quebec OELs: Skin design	ation		
Methyl cyclopentadienyl manganes 12108-13-3)	se tricarbonyl (CAS	Can be absorbed through the skin.	
Canada - Saskatchewan OELs: Skin	-		
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)		Can be absorbed through the skin.	
Kerosene (CAS 8008-20-6) Methyl cyclopentadienyl manganese tricarbonyl (CAS 12108-13-3)		Can be absorbed through the skin. Can be absorbed through the skin.	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)		Can be absorbed through the skin.	
US ACGIH Threshold Limit Values: S	kin designation		
Kerosene (CAS 8008-20-6) Methyl cyclopentadienyl manganese tricarbonyl (CAS 12108-13-3)		Can be absorbed through the skin. Can be absorbed through the skin.	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)		Can be absorbed through the skin.	

Appropriate engineering controls

Use only under good ventilation conditions or with respiratory protection.

Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields. Eye/face protection

Skin protection

Neoprene or Nitrile rubber. Gloves. Confirm with a reputable supplier first. **Hand protection**

Other As required by employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

Thermal hazards Not available.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or

drink. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance Clear Liquid. Physical state **Form** Liquid Amber Colour Odour Solvent **Odour threshold** Not available. Not available. pН Not available. Melting point/freezing point

Initial boiling point and boiling

range

100 - 305 °C (212 - 581 °F)

Flash point 43.0 °C (109.4 °F) Pensky-Martens Closed Cup

Evaporation Rate Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper

(%)

Not available. Vapour pressure Heavier than air Vapour density Not available. Relative density

Solubility(ies)

Not available. Solubility (Water) Partition coefficient Not available.

(n-octanol/water)

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

Other information

Flash point class Combustible II

Specific gravity 0.83

10. Stability and reactivity

Reactivity May react with incompatible materials. Stable under recommended storage conditions. **Chemical stability**

Possibility of hazardous Hazardous polymerisation does not occur.

reactions

#23527 Page: 5 of 9 Issue date 29-February-2016 Conditions to avoid Heat, open flames, static discharge, sparks and other ignition sources. Do not mix with other

chemicals.

Acids. Oxidizers.

Incompatible materials

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Oxides of manganese.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. Excessive intentional inhalation may cause respiratory tract

irritation and central nervous system effects (headache, dizziness).

Skin contact May cause irritation. May be absorbed through the skin in harmful amounts.

Eye contact Causes irritation.

Ingestion This product may be harmful or fatal if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration of material into lungs can cause chemical pneumonitis. Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Symptoms may include stomach distress, nausea or vomiting. Symptoms may include redness, drying, defatting and cracking of

Test results

the skin.

Species

Information on toxicological effects

Acute toxicity Components

Components	opecies	restresuits
Distillates (petroleum), ligh	nt hydrotreated (CAS 64742-47-8)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 2.8 mg/l/4h
Oral		
LD50	Rat	> 5000 mg/kg
Kerosene (CAS 8008-20-6	3)	
Acute		
Dermal		
LD50	Rabbit	5000 mg/kg
Inhalation		
LC50	Not available	
Oral		00000 #
LD50	Guinea pig	20000 mg/kg
	Rabbit	2835 mg/kg
	Rat	5000 mg/kg
Methyl cyclopentadienyl m	anganese tricarbonyl (CAS 12108-13-3)	
Acute		
Dermal		
LD50	Rabbit	140 mg/kg
Inhalation		
LC50	Mouse	0.1 mg/L, 4 Hours
	Rat	76 mg/l/4h
		0.2 mg/L, 1 Hours
		0.1 mg/L, 4 Hours
Oral		
LD50	Mouse	251.9 mg/kg
	Rat	8 mg/kg
Solvent naphtha (petroleui	m), heavy aromatic (CAS 64742-94-5)	
Acute	,, , , , , , , , , , , , , , , , , , , ,	
Dermal		
LD50	Rabbit	> 2000 mg/kg

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Components	Species	Test results	
		3000 ml/kg	
	Rat	3000 mg/kg	
Inhalation	ιται	3000 Hig/kg	
LC50	Rat	> 6 mg/l/4h	
2000	1 (0)	590 mg/l/4h	
		61 mg/L, 4 Hours	
<i>Oral</i> LD50	Rat	> 5000 mg/kg	
2500	rac	> 25 ml/kg	
		_	
0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		7050 mg/kg	
Stoddard solvent (CAS 8052-41-3)			
Acute Dermal			
LD50	Rabbit	> 3000 mg/kg	
Inhalation		3 3	
LC50	Rat	> 5500 mg/m3	
Oral		•	
LD50	Rat	> 5000 mg/kg	
Skin corrosion/irritation	May cause irritation.		
Exposure minutes	Not available.		
Erythema value	Not available.		
Oedema value	Not available.		
Serious eye damage/eye	Causes irritation.		
irritation			
Corneal opacity value	Not available.		
Iris lesion value	Not available.		
Conjunctival reddening value	Not available.		
Conjunctival oedema value	Not available.		
Recover days	Not available.		
Respiratory or skin sensitisation	Not classified.		
Respiratory sensitisation	Not classified.		
Skin sensitisation	Not classified.		
Germ cell mutagenicity	Non-hazardous by WHMIS criteria.		
Carcinogenicity	Non-hazardous by WHMIS cri	teria.	
ACGIH Carcinogens			
Kerosene (CAS 8008-20-	6)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)		A3 Confirmed animal carcinogen with unknown relevance to humans.	
Canada - Manitoba OELs: ca	rcinogenicity		
KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR (CAS 64742-94-5) KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR (CAS 8008-20-6)		Confirmed animal carcinogen with unknown relevance to humans. Confirmed animal carcinogen with unknown relevance to humans.	
	Evaluation of Carcinogenicity		
Stoddard solvent (CAS 80	052-41-3)	Volume 47 - 3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	Non-hazardous by WHMIS criteria.		
Specific target organ toxicity - single exposure	Not classified.		
0	Nint along if and		

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Not classified.

Not established.

Specific target organ toxicity - repeated exposure

Aspiration hazard

Chronic effects May cause chronic toxic effects.

May cause CNS impairment

Not available.

Further information

12. Ecological information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicological data

Components Species Test results

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 2.9 mg/L, 96 hours

(Oncorhynchus mykiss)

Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)

 Algae
 IC50
 Algae
 2.5 mg/L, 72 Hours

 Crustacea
 EC50
 Daphnia
 0.95 mg/L, 48 Hours

Aquatic

Fish LC50 Rainbow trout, donaldson trout 8.8 mg/L, 96 hours

(Oncorhynchus mykiss)

8.8 mg/L, 96 hours

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Mobility in general
Other adverse effects
Not available.
Not available.
Not available.

13. Disposal considerations

Disposal instructions Review federal, provincial, and local government requirements prior to disposal.

Hazardous waste code Not regulated.

Waste from residues / unused Not available.

products

Contaminated packaging Not available.

14. Transport information

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN2929

Proper shipping name Toxic liquid, flammable, organic, n.o.s.

Technical name METHYL CYCLOPENTADIENYL MANGANESE TRICARBONYL

Technical name Kerosene **Hazard class** 6.1(PGI, II)

Subsidiary hazard class 3
Packing group II
Special provisions 16

Packaging exceptions Limited quantity 0.1L

TDG



15. Regulatory information

Canadian federal regulations

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).

This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Distillates (petroleum), light hydrotreated (CAS 1 TONNES

64742-47-8)

Solvent naphtha (petroleum), heavy aromatic (CAS 1 TONNES

64742-94-5)

Stoddard solvent (CAS 8052-41-3) 1 TONNES

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS status Controlled

WHMIS classification Exempt - Consumer product

Inventory Status

Country(s) or regionInventory NameOn Inventory (Yes/No)*CanadaDomestic Substances List (DSL)Yes

Canada Non-Domestic Substances List (NDSL) No

16. Other information



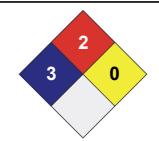
HEALTH * 3

FLAMMABILITY 2

PHYSICAL HAZARD 0

PERSONAL X

PROTECTION X



Issue date29-February-2016Revision date29-February-2016

Version # 01

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Disclaimer For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. The above SDS reflects the latest information on file with respect to hazards, properties and handling of this product. No warranty however, expressed or implied, is made with regard to the use of this information.

Prepared by Dell Tech Laboratories Ltd. Phone: (519) 858-5021

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^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)