SEP 2 6 2011

805-02910002

Nissan CVT NS-2 V MSDS# 10187 Version 4.1 Effective Date 03/23/2011 According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Material Safety Data Sheet

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name Uses	:	Nissan CVT NS-2 V Transmission oil.	
Manufacturer/Supplier		SOPUS Products	

manufacturer/Supplier		SUPUS Products
		700 Milam
		Houston TX 77002-2806 USA
MSDS Request	:	

Emergency Telephone Number

Spill Information	:	877-242-7400
Health Information	:	877-504-9351

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS No.	Concentration
Alkyl methacrylates copolymer		5.00 - 10.00 %
Alkyl phosphites		0.25 - 0.50 %

Synthetic base oil and additives. Highly refined mineral oil. The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

3. HAZARDS IDENTIFICATION

	Emergency Overview
Appearance and Odour	: Green. Liquid at room temperature. Slight hydrocarbon.
Health Hazards	: Not classified as dangerous for supply or conveyance.
Safety Hazards	: Not classified as flammable but will burn.
Environmental Hazards	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Health Hazards	: Not expected to be a health hazard when used under normal conditions.
Health Hazards	
Inhalation	: Under normal conditions of use, this is not expected to be a primary route of exposure.
Skin Contact	 Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Eye Contact	: May cause slight irritation to eyes.
Ingestion	: Low toxicity if swallowed.
Other Information	: Used oil may contain harmful impurities.
Signs and Symptoms	: Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

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Aggravated Medical Conditions		Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.	
Environmental Hazards	:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
Additional Information	:	Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
4. FIRST AID MEASURES			_
General Information	:	Not expected to be a health hazard when used under normal conditions.	
Inhalation	:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.	
Skin Contact	:	Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.	
Eye Contact	:	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.	
Ingestion	:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.	
Advice to Physician	:	Treat symptomatically.	

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point	:	Typical 212 °C / 414 °F (COC)
Upper / lower Flammability or	:	Typical 1 - 10 %(V)
Explosion limits		
Auto ignition temperature	:	> 320 °C / 608 °F
Specific Hazards	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.
Suitable Extinguishing	:	Foam, water spray or fog. Dry chemical powder, carbon
Media		dioxide, sand or earth may be used for small fires only.
Unsuitable Extinguishing Media	:	Do not use water in a jet.
Protective Equipment for Firefighters	:	Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Protective measures

: Avoid contact with skin and eyes. Use appropriate containment

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Clean Up Methods	 to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay,
Additional Advice	 sand or other suitable material and dispose of properly. Local authorities should be advised if significant spillages cannot be contained.
7. HANDLING AND STORAGE	
General Precautions	: Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Handling	: Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.
Storage	 Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F
Recommended Materials	: For containers or container linings, use mild steel or high density polyethylene.
Unsuitable Materials	: PVC.
Additional Information	: Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Туре	ppm	mg/m3	Notation
Oil mist, mineral	ACGIH	TWA(Inhalabl e fraction.)		5 mg/m3	
Oil mist, mineral	OSHA Z1	PEL(Mist.)		5 mg/m3	
Oil mist, mineral	OSHA Z1A	TWA(Mist.)		5 mg/m3	

Additional Information	:	Shell has adopted as Interim Standards the OSHA Z1A values that were established in 1989 and later rescinded.
Exposure Controls	:	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances.

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Personal Protective Equipment Respiratory Protection	 Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated. Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for
Hand Protection	 combined particulate/organic gases and vapours [boiling point >65°C(149°F)]. Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.
Eye Protection	 Application of a non-perfumed moisturizer is recommended. Wear safety glasses or full face shield if splashes are likely to occur.
Protective Clothing	 Skin protection not ordinarily required beyond standard issue work clothes.
Monitoring Methods	: Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also
Environmental Exposure Controls	 be appropriate. Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Green. Liquid at room temperature.
Odour	: Slight hydrocarbon.
pH	: Not applicable.
Initial Boiling Point and	: > 280 °C / 536 °F estimated value(s)
Boiling Range	
Pour point	: Typical -50 °C / -58 °F
Flash point	: Typical 212 °C / 414 °F (COC)

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Upper / lower Flammability or Explosion limits	: Typical 1 - 10 %(V)
Auto-ignition temperature	: > 320 °C / 608 °F
Vapour pressure	: < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
Specific gravity	: 0.840 at 15 °C / 59 °F
Density	: Typical 840 kg/m3 at 15 °C / 59 °F
Water solubility	: Negligible.
n-octanol/water partition coefficient (log Pow)	: > 6 (based on information on similar products)
Kinematic viscosity	: Typical 32.6 mm2/s at 40 °C / 104 °F
Vapour density (air=1)	: > 1 (estimated value(s))
Evaporation rate (nBuAc=1)	: Data not available

10. STABILITY AND REACTIVITY

Stability Conditions to Avoid Materials to Avoid Hazardous Decomposition Products	 Stable. Extremes of temperature and direct sunlight. Strong oxidising agents. Hazardous decomposition products are not expected to form during normal storage.
Products	during normal storage.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment	: Information given is based on data on the components and the toxicology of similar products.
Acute Oral Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat
Acute Dermal Toxicity	Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabit
Acute Inhalation Toxicity	 Not considered to be an inhalation hazard under normal conditions of use.
Skin Irritation	 Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Eye Irritation	: Expected to be slightly irritating.
Respiratory Irritation	: Inhalation of vapours or mists may cause irritation.
Sensitisation	: Not expected to be a skin sensitiser.
Repeated Dose Toxicity	: Not expected to be a hazard.
Mutagenicity	: Not considered a mutagenic hazard.
Carcinogenicity	: Components are not known to be associated with carcinogenic effects.
Reproductive and Developmental Toxicity	: Not expected to be a hazard.
Additional Information	: Used oils may contain harmful impurities that have
	accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity	: Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be toxic: LL/EL/IL50 1-10 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Mobility	: Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.
Persistence/degradability	 Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
Bioaccumulation Other Adverse Effects	 Contains components with the potential to bioaccumulate. Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.
	Contains alkyl phosphites. Very toxic: LC/EC/IC50 0.01 - 0.1 mg/l (to aquatic organisms)
13. DISPOSAL CONSIDERATIO	INS
Material Disposal	: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
Container Disposal	: Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
Local Legislation	: Disposal should be in accordance with applicable regional, national, and local laws and regulations.
14. TRANSPORT INFORMATIO	N
	ortation Classification (49CFR)
Identification number	UN 3082
Proper shipping name Technical name	Environmentally hazardous substances, liquid, n.o.s. (Alkyl phosphites)

Proper shipping name Technical name Class / Division	Environmentally hazardous substances, liquid, n.o.s. (Alkyl phosphites) 9	
Packing group	III	
IMDG Identification number	UN 3082	

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Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	(Alkyl phosphites)
Class / Division	9
Packing group	III
Marine pollutant:	Yes

IATA (Country variations may apply)

Identification numberUN 3082Proper shipping nameEnvironmentally hazardous substance, liquid, n.o.s.Technical name(Alkyl phosphites)Class / Division9Packing groupIII

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Notification Status

EINECS	All components listed or
	polymer exempt.
TSCA	All components listed.
DSL	All components listed.

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Reportable quantity: 100000 lbs

Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

SARA Hazard Categories (311/312) No SARA 311/312 Hazards.

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

Known to the State of California to cause birth defects or other reproductive harm.

16. OTHER INFORMATION

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NFPA Rating (Health, Fire, Reactivity)	:	0, 1, 0
MSDS Version Number	:	4.1
MSDS Effective Date	:	03/23/2011
MSDS Revisions	:	A vertical bar () in the left margin indicates an amendment from the previous version.
MSDS Regulation	:	The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
MSDS Distribution	:	The information in this document should be made available to all who may handle the product.
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