

## SECTION 1: NAME OF MIXTURE AND COMPANY

### 1.1 Product Identification

**Name of the Substance:** Diesel Fuel

**EC No.:** 269-822-7

**REACH Registration No.:** 01-2119484664-27-0051

**CAS No.:** 68334-30-5

### 1.2 Product Use:

Established use: fuel, heating fuel

### 1.3 Detailed Information on MSDS Supplier

#### Manufacturer:

Public Company *ORLEN Lietuva*  
Juodeikiai, LT-89467 Mažeikiai District, Lithuania  
Tel.: +370 443 92121  
Telefax: +370 443 92525  
E-mail address: info@orlenlietuva.lt

### 1.4. Emergency telephone

Public Company ORLEN Lietuva (24 hours a day): +370 443 92510

Poison Information Bureau. In case of poisoning (24 hours a day): +370 52362052

## SECTION 2: POSSIBLE HAZARDS

### 2.1 Classification of Substance

**Classification according to Regulation (EC) No. 1272/2008:**

Flam. Liq. 3, H226

Asp. Tox. 1, H304

Skin Irrit. 2, H315

Acute Tox. 4, H332

Carc. 2, H351

STOT RE 2, H373

Aquatic Chronic 2, H411

### 2.2 Labeling

**Labelling and classification according to Regulation (EC) No. 1272/2008**

**Signal word:**

DANGER

**Hazard pictograms**



GHS02

GHS08

GHS07

GHS09

**Hazard Statements:**

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

Substance **DIESEL FUEL**

H332: Harmful if inhaled.

H351: Suspected of causing cancer.

H373: May cause damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

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.

P331: Do NOT induce vomiting.

**2.3 Other hazards**

Diesel Fuel is a flammable liquid. Light hydrocarbons evaporate slowly.

The vapour is irritating to respiratory tract. Large amount of Diesel Fuel vapour inhaled may cause chemical intoxication. Diesel Fuel may contain considerable amount (up to 8 % wt) of polycyclic aromatic hydrocarbons. Experimental studies have proven that some of these hydrocarbons may cause cancerous diseases. Long-term and repeated effects may cause skin dryness and cracks.

Toxic to aquatic organisms. May cause long-term adverse effects to aquatic environment. Risk of soil and ground water contamination.

**SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS****Chemical composition:**

Diesel fuel.

**3.1 Components according to Regulation (EC) No. 1272/2008:**

Component name	CAS No.	EC No.	Concentration, % m/m
Diesel fuel	68334-30-5	269-822-7	Up to 100
Cetane improver: 2-Ethylhexyl nitrate	27247-96-7	248-363-6	0 – 0,1
Lubricity additive	no date	no date	0 – 0,02
Cold flow improver	no date	no date	0 – 0,04
Antistatic agents: Stadis (R) 450	no date	no date	0 – 0,0001
Dye: 1,4-Bis (butylamino)-9,10-anthraquinone or N-Ethyl-1(phenylazo phenylazo)-2-naphthalenamamine	90170-70-0  no date	290-505-4  260-124-8, 260-913-7	0 – 0,00042  0 – 0,0005
Marker: N-Ethyl-N-[2-(1-iso butoxyethoxy) ethyl]-4-(phenylazo) aniline	no date	no date	0 – 0,001
Multifunctional additive	no date	no date	0 – 0,03

**SECTION 4: FIRST-AID MEASURES****4.1 Description of first aid measures****General Information**

Spillages make surface slippery.

Before attempting to rescue casualties, isolate area from all potential sources of ignition including disconnecting electrical supply.

Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces.

**Inhalation**

Inhalation at ambient temperature is unlikely because of the low vapour pressure of the substance. Exposure to vapours may however occur when the substance is handled at high temperatures with poor ventilation. In case of symptoms arising from inhalation of fumes or mists or vapours: remove casualty to a quiet and well ventilated place if safe to do so.

If casualty is unconscious and:

- Not breathing – ensure that there is no obstruction to breathing and give artificial respiration by trained personnel. If necessary, give external cardiac massage and obtain medical assistance.

- Breathing – place in the recovery position. Administer oxygen if necessary.

Obtain medical assistance if breathing remains difficult.

**Skin Contact**

Immediately remove contaminated clothing and footwear and dispose of safely. Wash affected area thoroughly with soap and water. Seek medical attention if skin irritation, swelling or redness develops and persists.

When using high-pressure equipment, injection of product can occur. If high-pressure injuries occur, immediately seek professional medical attention. Do not wait for symptoms to develop.

For minor thermal burns: Cool the burn. Hold the burned area under cold running water for at least five minutes, or until the pain subsides. However, body hypothermia must be avoided.

**Eye Contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.

**Ingestion**

The casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Do not induce vomiting as there is high risk of aspiration (chemical pneumonia). Gastric lavage should be undertaken only after endotracheal intubation.

Do not give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects**

Inhalation of vapours may irritation of the respiratory tract due to excess fume, mists or vapour exposure. Skin contact – reddening, irritation. Eye contact – slight irritation (unspecific). Ingestion – few or no symptoms expected. If any, nausea and diarrhea might occur. In case of ingestion, always assume that aspiration has occurred.

**4.3 Information to doctor or other competent person providing first aid.**

Treatment according to symptoms. In case of ingestion, always assume that aspiration has occurred.

**SECTION 5: FIRE-FIGHTING MEASURES****Flammability**

Flammable liquid.

Substance **DIESEL FUEL**

## **5.1 Extinguishing Media**

### **Suitable Extinguishing Media**

- Foam (specifically trained personnel only),
- Water fog (specifically trained personnel only),
- Dry chemical powder,
- Carbon dioxide,
- Inert gases (subject to regulations),
- Sand or earth,
- Steam.

### **Unsuitable Extinguishing Media**

Do not use direct water jets on the burning product; they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

## **5.2 Hazards arising from the substance**

### **Combustion Products**

Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds.

If sulfur compounds are present in appreciable amounts, combustion products may include also H<sub>2</sub>S and SO<sub>x</sub> (sulfur oxides) or sulfuric acid.

### **Specific Hazards**

If tanks or containers with product are exposed to fire, there is a hazard of explosion and fire due to increased pressure inside the vessel. If spillage of product occurs, the mixture of hydrocarbon vapours and air may explode or ignite of sparks or heated surfaces. Tanks and containers with product, which are in the direct vicinity of the fire, should be cooled by water jets from the safe distance.

## **5.3 Protective Equipment for Firefighters**

Use proper breathing apparatus, self-contained gas masks and impervious protective clothes. In case of a large fire or in confined or poorly ventilated spaces wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal Protective Equipment and Emergency Procedures**

Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons.

NOTE: gloves made of PVA are not water-resistant, and are not suitable for emergency use.

Work helmet. Antistatic non-skid safety shoes or boots. Goggles or face shield, if splashes or contact with eyes is possible or anticipated.

Respiratory protection: A half or full-face respirator with filter(s) for organic vapours or a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

Diesel Fuel is flammable liquid, any spillage or leak is a severe fire or explosion hazard. Stop or contain leak at the source if safe to do so. Avoid direct contact with released material. Stay upwind. In case of large spillages, alert residents in downwind areas. Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility

of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares).

If required, notify relevant authorities according to all applicable regulations.

## **6.2 Environmental Measures**

### **Spillages on to Land**

Stop leak at the source if safe to do so. Prevent product from entering sewers, rivers, waterways or other bodies of water. If necessary, dike the product with dry earth, sand or similar non-combustible materials. Large spillages may be cautiously covered with foam, if available, to limit fire risk. Do not use direct jets.

When inside buildings or confined spaces, ensure adequate ventilation.

### **Spillages on Water or at Sea**

Stop leak at the source if safe to do so. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable means.

## **6.3 Cleaning Methods and Procedures**

### **Spillages on to Land**

Absorb spilled product with suitable non-combustible materials. Collect free product with suitable means. Transfer collected product and other contaminated materials to suitable containers for recycle, recovery or safe disposal.

In case of soil contamination, remove contaminated soil and treat this in accordance with local regulations.

### **Spillages on Water or at Sea**

Collect spilled product by absorbing with specific floating absorbents. If this is not possible, control the spreading of the spillage and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities. Collect recovered product and other materials in suitable tanks or containers for recovery or safe disposal.

### **Additional Information**

NOTE: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken.

Spillages of limited amounts of products, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which are unlikely to entail exposure to dangerous concentrations. However, the build-up of dangerous concentrations may occur in specific spots, like trenches, depressions or confined spaces. In all these circumstances, however, the correct actions should be assessed on a case-by-case basis.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Avoid release to the environment. Ensure that all relevant regulations regarding handling and storage facilities of flammable products are followed.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Substance **DIESEL FUEL**

Use and store only outdoors or in a well-ventilated area. Avoid contact with the product.

## 7.2 Conditions for safe storage and handling

### Handling

During product transfer activities (loading and unloading of mobile tanks) and during sampling there is a risk of static electrical discharge, therefore precautionary measures against static electricity shall be taken.

Properly sealed mobile tank cars should be used for Diesel Fuel transportation. Do not use compressed air for filling, discharging, or handling operations.

Ground/bond containers, tanks and transfer/receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

The vapour is heavier than the air. Beware of accumulation in pits and confined spaces. Use personal protective equipment. Avoid contact with skin and eyes. Do not ingest. Avoid breathing vapours.

### Storage

Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Store product only in tanks or containers designed for flammable liquids. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills.

Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Before entering storage tanks and commencing any operation in a confined area check the atmosphere for oxygen content and flammability.

Diesel Fuel vapours (gaseous hydrocarbons) can build up in the headspace of tanks, they may ignite at temperatures below flash point, therefore, care should be taken to avoid static electrical discharge and all ignition sources during diesel fuel gauging or sampling from storage tanks.

Store separately from oxidizing agents.

### Recommended and Unsuitable Materials for Storage

Recommended materials: For containers, or container linings use mild steel, stainless steel.

Unsuitable materials: some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.

### Container Advice If the Product is Supplied in Containers

Keep only in the original container or in a suitable container for this kind of product.

Keep containers tightly closed and properly labeled. Protect from the sunlight.

Light hydrocarbon vapours can build up in the headspace of containers. These can cause flammability/explosion hazards. Empty containers may contain flammable product residues. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned.

## 7.3 Specific end use

Diesel Fuel is used as a fuel in compression ignition (diesel) internal combustion engines and as a heating fuel.

## SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure Limits

National allowed occupational exposure limits should be observed. Where not established, the following short-term exposure limit is recommended – 500 mg/m<sup>3</sup>.

Substance **DIESEL FUEL****8.2 Exposure controls****8.2.1 Technical measures**

In ambient temperatures Diesel Fuel gives off small quantities of vapour, however, during various technical and process operations diesel fuel vapours may be emitted into the environment, therefore the concentration in working environment air shall be controlled to the minimum allowed limit.

**8.2.2 Personal Protective Equipment:****Respiratory Protection**

If during operations the exposure to large amounts of product vapour and gas is inevitable, then suitable respiratory protective equipment, such as A2 filtering mask or analogous should be applied (e.g. acc. to EN 14387). When working in vessel internals or other confined spaces **do not** use filtering masks but the special self-contained protective equipment. Respiratory protection equipment should be selected and used in accordance with the manufacturer's instructions and requirements established by the law.

**Eye Protection**

Wear safety glasses in circumstances where eye contact may occur (e.g. acc. to EN 166).

**Skin and Body Protection****Hand Protection**

Wear petroleum product resistant gloves (e.g. acc. to EN 420, EN 388, EN 374-2, EN 374-3).

**Other Protective Measures**

It is necessary to wear protective clothes (e.g. acc. to EN 465) and other protection equipment. Protective clothing should be regularly inspected and maintained.

**Special Hygienic Recommendation**

Wash hands before breaks and after work.

**8.2.3 Environmental Impact Control**

To ensure the compliance of ventilation and process equipment with requirements of environmental legal acts, emissions of such equipment are subject to check ups. In some cases vapour filtering installations or process equipment modifications may be necessary for the reduction of emission to allowed limit.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	clear yellowish liquid.
<b>Odour</b>	liquid with typical Diesel Fuel odour.
<b>pH</b>	insignificant information.
<b>Freezing point</b>	below minus 5 °C.
<b>Distillation temperatures range</b>	180 – 360 °C.
<b>Flash point</b>	> 55 °C.
<b>Explosion concentration in air</b>	2 – 3 % vol.
<b>Vapour pressure</b>	~ 0,4 kPa.
<b>Vapour density rel. to air</b>	no data.
<b>Density at 15 °C</b>	800 – 845 kg/m <sup>3</sup> .
<b>Solubility in water</b>	water insoluble.
<b>Auto-ignition temperature</b>	> 225 °C.
<b>Viscosity, kinematic at 40 °C</b>	2,0 – 4,5 mm <sup>2</sup> /s.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2 Stability**

Stable at ambient temperature.

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to Avoid**

High ambient temperature.

Avoid static electrical discharges and other ignition sources.

**10.5 Materials to Avoid**

Avoid contact with strong oxidizing agents.

**10.6 Hazardous Decomposition Products**

Thermal decomposition products vary depending on conditions.

Partial decomposition produces fume, carbon dioxide, carbon monoxide and other harmful gases.

Toxic gas concentration in a confined space or premises may reach a hazardous limit.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Sources of Exposure**

Diesel Fuel may affect human body through skin, if inhaled and swallowed.

**Acute toxicity**

Experimental acute toxicity data:

Acute oral LD<sub>50</sub> > 7600 mg/kg,

Acute inhalation LC<sub>50</sub> > 4,1 mg/l,

Acute dermal LD<sub>50</sub> > 4300 mg/kg.

**Prolonged and sub-chronic toxicity**

Experimental chronic toxicity data:

Short-term repeat dose dermal NOAEL > 0,5 mg/kg,

Sub-chronic repeat dose dermal NOAEL > 30 mg/kg,

Sub-chronic repeat dose inhalation NOAEC > 1710 mg/m<sup>3</sup>.

**Acute Health Effects**

Diesel Fuel vapour is slightly irritating to eyes, nose and throat. Unlikely to cause more than transient stinging if accidental eye contact with liquid Diesel Fuel occurs. Likely to result in light irritation if splashed on the skin.

Unlikely to cause harm if swallowed in small doses, though larger quantities may cause nausea and diarrhea. In case of ingestion assume that aspiration has occurred.

**Chronic Health Effects**

Repeated or prolonged contact with skin may cause dermatitis. If product contains high level of PCA's, prolonged or repeated skin contact may result in irreversible skin disorders including cancer.

**Reproductive Toxicity**

Experimental Data:

Reproductive toxicity dermal NOAEL > 125 mg/kg,

Reproductive toxicity inhalation NOAEC > 401 ppm.

NOTE: Handling diesel fuel in usual conditions causes no toxic hazard.



**SECTION 12: ECOLOGICAL INFORMATION****12.1 Ecotoxicity**

Diesel fuel is harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Spills may form a film on water surfaces causing physical damage to aquatic life. Oxygen transfer can also be impaired due to the formed film.

Experimental Data:

Acute aquatic invertebrates  $EL_{50} > 68$  mg/l,

Acute aquatic algae  $IL_{50} > 22$  mg/l,

Acute aquatic fish  $LL_{50} > 68$  mg/l,

Long-term invertebrate  $NOEL_{50} > 0,21$  mg/l,

Long-term fish  $NOEL_{50} > 0,083$  mg/l.

**12.2 Durability and Degradability**

The product is inherently biodegradable, 60 % according to 28-day test.

**12.3 Bio-accumulative Potential**

Heavier hydrocarbons of the product are possibly accumulative in organic sediments of water.

**12.4 Mobility**

Depending on ambient temperatures, spillage evaporates slowly from surface soil and water. Product may penetrate the soil causing ground water contamination.

**12.5 Results of PBT and vPvB assessment**

This substance no contains representative hydrocarbons structure were found to meet the PBT or vPvB.

**SECTION 13: WASTE MANAGEMENT****13.1 Waste Disposal Methods**

Waste is disposed of by de-harming it in accordance with national requirements and local regulations or via a licensed waste disposal contractor. Identify the hazards of waste handling and undertake required safety measures. Personal protective equipment is necessary for waste managing personnel. Empty tanks and tank cars may contain some remaining product, therefore, hazard-warning labels are to be retained as a guide to the safe tank handling and waste disposal. Empty containers represent a fire hazard as they may contain flammable product residues and vapour.

**SECTION 14: TRANSPORT INFORMATION**

<b>14.1 UN number</b>	1202
<b>14.2 UN proper shipping name</b>	UN 1202, Diesel Fuel, 3, III.
<b>14.3 Transport hazard class</b>	3
<b>14.4 Packing group</b>	III
<b>14.5 Environmental hazard</b>	Environmentally hazardous, sea pollutant.
<b>14.6 Special precautions for users</b>	Not applicable.
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No date.

**SECTION 15: REGULATORY INFORMATION****15.1 Legislation****Lithuanian:**

Commission Regulation (EU) No. 2015/830; Commission Regulation (EU) No. 453/2010; Regulation (EC) No. 1907/2006 of the European Parliament and of the Council; Regulation (EC) No. 1272/2008 of the European Parliament and of the Council; Law on Chemical Substances and Preparations of the Republic of Lithuania (*Official Gazette (Valstybės Žinios)*, 2000, No. 36-987; 2004, No. 116-4329; 2005, No. 79-2846; 2006, No. 65-2381; 2008, No. 76-3000); Order No. 532 /742; 2010, Nr. 145-7434; 2010, Nr. 157-7967; 2012, Nr. 132-6648; Teisės aktų registras, Nr. 2015-11085); Law of the Republic of Lithuania on Packing and Packing Wastes Management (*Official Gazette*, 2001, No. 85-2968; 2005, No.86-3206; 2008, No.71-2699; 2011, Nr. 138-6526; 2012, Nr. 6-191; 2013, Nr. 110-5429; 2013, Teisės aktų registras, Nr. 2014-00038; Nr. 2014-05579; Nr. 2016-00088); Lithuanian Hygienic Norm HN 23:2011 „Concentration Limit Values of Hazardous Chemicals in Working Environment Air. General Requirements“ (*Official Gazette*, 2011, Nr. 38-1804) approved by Order No. V-824/A1-389 of the Minister of Health Care and the Minister of Social Security and Labour of the Republic of Lithuania on 1 September 2011.

**15.2 Chemical Safety Assessment**

Diesel Fuel chemical safety assessment has been conducted.

**SECTION 16: OTHER INFORMATION**

The Material Safety Data Sheet has been reviewed and the data therein were revised and laid out according the requirements of the Commission Regulation (EU) No. 2015/830.

**Abbreviations and acronyms**

CAS	Chemical Abstracts Service
EC No	EINECS and ELINCS Number
EL <sub>50</sub>	Effect Level to 50 % of a test population
EN	European Standard
EU	European Union
IL <sub>50</sub>	Inhibitory Level to 50 % of a test population
LC <sub>50</sub>	Lethal Concentration to 50 % of a test population
LD <sub>50</sub>	Lethal Dose to 50% of a test population (Median Lethal Dose)
LL <sub>50</sub>	Lethal Level to 50 % of a test population
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic substance
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation
STOT	Specific Target Organ Toxicity
UN	United Nations
vPvB	Very Persistent and Very Bioaccumulative

**Hazard statements:**

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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.

P331: Do NOT induce vomiting.

Do not use Diesel Fuel for purposes other than indicated in the manufacturer's information. During such use the user may be exposed to unforeseen hazards.

Should you have any questions or doubts regarding the MSDS, its contents or other issues related to the material safety, please contact us at the address: [info@orlenlietuva.lt](mailto:info@orlenlietuva.lt)

NOTE: Information provided herein is considered to be accurate as of the date specified below. No warranty is made as to the accuracy or completeness of the data and information provided in this data sheet. Information provided herein serves only as guidelines for safe work, use, processing, storage, and waste management. It cannot be considered as a warranty or quality certificate. This information applies only to specific material designated and may not be suitable for such material used in combination with any other materials or in any other manner not described in this document.

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