# SAFETY DATA SHEET



### Section 1. Identification

**Product name** Optigear BM 100

450750 SDS# Code 450750-US03

Relevant identified uses of the substance or mixture and uses advised against

**Product use** Gear lubricant

For specific application advice see appropriate Technical Data Sheet or consult our

company representative.

BP Lubricants USA Inc. Supplier

1500 Valley Road Wayne, NJ 07470

Telephone: +1-888-CASTROL

**EMERGENCY HEALTH** 

**INFORMATION:** 

+1-800-447-8735

**EMERGENCY SPILL** +1-800-424-9300 (CHEMTREC USA)

**INFORMATION:** +1-703-527-3887 (CHEMTREC outside the US)

### Section 2. Hazards identification

**OSHA/HCS** status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the

substance or mixture

SKIN SENSITIZATION - Category 1

**GHS label elements** 

**Hazard pictograms** 



Signal word Warning

**Hazard statements** May cause an allergic skin reaction.

**Precautionary statements** 

Prevention Wear protective gloves. Avoid breathing vapor. Contaminated work clothing must not

be allowed out of the workplace.

Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of soap and Response

water. If skin irritation or rash occurs: Get medical attention.

**Storage** Not applicable.

Dispose of contents and container in accordance with all local, regional, national and **Disposal** 

international regulations.

Hazards not otherwise

classified

Defatting to the skin.

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### Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Highly refined mineral oil and additives.

Ingredient name	CAS number	%
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	≥75 - ≤90
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	≥10 - ≤25
Residual oils (petroleum), solvent-dewaxed	64742-62-7	≤3
Zinc dialkyl dithiophosphate	68457-79-4	≤2.4
Reaction product of ammonium molybdate and C12-C24-diethoxylated	Proprietary	≤1.9
alkylamine (1:5-1:3)		
maleic anhydride	108-31-6	<0.1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### **Description of necessary first aid measures**

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and

remove any contact lenses. Get medical attention.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes

> while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. In the event of any complaints or symptoms, avoid further

exposure. Get medical attention.

Inhalation If inhaled, remove to fresh air. 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. Get medical attention if symptoms occur.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if adverse health effects

persist or are severe.

No action shall be taken involving any personal risk or without suitable training. It may **Protection of first-aiders** 

be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves.

#### Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

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.

Specific treatments No specific treatment.

### Section 5. Fire-fighting measures

**Extinguishing media** 

Suitable extinguishing media

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing

Do not use water jet.

media

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### Section 5. Fire-fighting measures

Specific hazards arising from the chemical

Swarf fires - Neat metal working oils may fume, thermally decompose or ignite if they come into contact with red hot swarf. To minimise the generation of red hot swarf ensure that a sufficient flow of oil is correctly directed to the cutting edge of the tool to flood it throughout cutting operations. As an additional precaution swarf should be regularly cleared from the immediate area to prevent the risk of fire. In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

Combustion products may include the following:

metal oxide/oxides

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

nitrogen oxides (NO, NO<sub>2</sub> etc.)

Special protective actions for fire-fighters Special protective equipment for fire-fighters No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA)

and full turnout gear.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Contact emergency personnel. 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilled 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).

#### Methods and materials for containment and cleaning up

**Small spill** 

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. 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. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Concentrations of mist, fumes and vapors in enclosed spaces may result in the formation of explosive atmospheres. Excessive splashing, agitation or heating must be avoided. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid, as can bacteria, and as a result may induce allergic and other skin reactions, especially if personal hygiene is inadequate.

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### Section 7. Handling and storage

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Sulfur compounds in this material may decompose when heated to release hydrogen sulfide gas which may accumulate to potentially lethal concentrations in enclosed air spaces. Vapor concentrations of hydrogen sulfide above 50 ppm, or prolonged exposure at lower concentrations, may saturate human odor perceptions so that the smell of gas may not be apparent. Exposure to concentrations of hydrogen sulfide vapor above 500 ppm may cause rapid death. Do not rely on the sense of smell to detect hydrogen sulfide.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated heavy paraffinic

Residual oils (petroleum), solvent-dewaxed

Zinc dialkyl dithiophosphate

Reaction product of ammonium molybdate and C12-C24-diethoxylated alkylamine (1:5-1:3)

maleic anhydride

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction OSHA PEL (United States).

TWA: 5 mg/m³ 8 hours. Issued/Revised: 6/1993

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction **OSHA PEL (United States).** 

TWA: 5 mg/m³ 8 hours. Issued/Revised: 6/1993

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction **OSHA PEL (United States).** 

TWA: 5 mg/m³ 8 hours. Issued/Revised: 6/1993

None.

None.

ACGIH TLV (United States). Skin sensitizer. Inhalation sensitizer.

TWA: 0.01 mg/m³ 8 hours. Issued/Revised: 12/2010 Form: Inhalable fraction and vapor **OSHA PEL (United States).** 

TWA: 0.25 ppm 8 hours. Issued/Revised: 6/1993

TWA: 1 mg/m³ 8 hours. Issued/Revised: 6/1993

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### Section 8. Exposure controls/personal protection

# Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

# **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.

#### **Individual protection measures**

#### **Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Eye/face protection Skin protection Hand protection

Safety glasses with side shields.

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

#### **Body protection**

Use of protective clothing is good industrial practice.

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.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

For protection against metal working fluids, respiratory protection that is classified as "resistant to oil" (class R) or oil proof (class P) should be selected where appropriate. Depending on the level of airborne contaminants, an air-purifying, half-mask respirator (with HEPA filter) including disposable (P- or R-series) (for oil mists less than 50mg/m3), or any powered, air-purifying respirator equipped with hood or helmet and HEPA filter (for oil mists less than 125 mg/m3).

Where organic vapours are a potential hazard during metalworking operations, a combination particulate and organic vapour filter may be necessary.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

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### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

Physical state
Color
Brown.
Odor
Not available.
Odor threshold
Not applicable.
Not applicable.
Melting point/freezing point
Boiling point, initial boiling
Not available.
Not available.

Boiling point, initial boiling point, and boiling range

Open cup: >200°C (>392°F) [Cleveland]

Pour point -21 °C

**Evaporation rate** Not available.

Flammability Not applicable. Based on - Physical state

Not available.

dithiophosphate

Lower and upper explosion limit/flammability limit

Vapor pressure

Flash point

	Vapor Pressure at 20°C		Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Distillates (petroleum), hydrotreated heavy paraffinic	<0.08	<0.011	ASTM D 5191			
Distillates (petroleum), hydrotreated heavy paraffinic	<0.08	<0.011	ASTM D 5191			
Residual oils (petroleum), solvent- dewaxed	<0.08	<0.011	ASTM D 5191			
Zinc dialkyl	0	0	EU A.4	0	0	EU A.4

Relative vapor density Not available.

**Density** <1000 kg/m³ (<1 g/cm³) at 15°C

**Solubility** insoluble in water. **Partition coefficient: n-**Not applicable.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity

Kinematic: 100 mm²/s (100 cSt) at 40°C

Kinematic: 6.8 mm²/s (6.8 cSt) at 100°C

**VOC 3**.5 g/l

Particle characteristics

octanol/water

Median particle size Not applicable.

### Section 10. Stability and reactivity

Reactivity

No specific test data available for this product. Refer to Conditions to avoid and

Incompatible materials for additional information.

Chemical stability The product is stable.

Possibility of hazardous Under normal conditions of storage and use, hazardous reactions will not occur.

reactions Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid Avoid excessive heat.

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### Section 10. Stability and reactivity

Incompatible materials Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

Hydrogen Sulfide (H2S)

products

### **Section 11. Toxicological information**

#### Information on toxicological effects

**Acute toxicity** 

Product/ingredient Test Species Result Exposure Remarks

name

Reaction product of LD50 Dermal Rat >2000 mg/kg - -

ammonium molybdate

and

C12-C24-diethoxylated alkylamine (1:5-1:3)

LD50 Oral Rat >2000 mg/kg - -

Conclusion/Summary Not available.

Irritation/Corrosion

Product/ingredient Species Result Score Exposure Observation Conc. Remarks

name

Reaction product of Rabbit Skin - - - - - - - ammonium molybdate Moderate

and

C12-C24-diethoxylated alkylamine (1:5-1:3)

Rabbit Eyes - ≥2 - - -

Redness of the

irritant

conjunctivae

**Sensitizer** 

Product/ingredient name Route of Species Result Remarks

exposure

Reaction product of ammonium skin Guinea pig Sensitizing -

molybdate and

C12-C24-diethoxylated alkylamine (1:5-1:3)

Specific target organ toxicity (repeated exposure)

 Name
 Category
 Route of exposure
 Target organs

 maleic anhydride
 Category 1
 inhalation
 respiratory system

**Aspiration hazard** 

Name Result

Distillates (petroleum), hydrotreated heavy paraffinic ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact No known significant effects or critical hazards.

**Skin contact** May cause an allergic skin reaction.

**Inhalation** Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

**Ingestion** No known significant effects or critical hazards.

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### Section 11. Toxicological information

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact No specific data.

**Skin contact** Adverse symptoms may include the following:

irritation redness dryness cracking

InhalationNo specific data.IngestionNo specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

Potential immediate Not available.

effects

Potential delayed effects Not available.

Long term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

#### Potential chronic health effects

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

#### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Route	ATE value
Oral	179004.66 mg/kg

### **Section 12. Ecological information**

#### **Toxicity**

No testing has been performed by the manufacturer.

Product/ingredient Species Test/Result Exposure Effects Remarks

name

Reaction product of Daphnia Chronic EC50 6.8 48 hours - -

mg/l

ammonium molybdate and

C12-C24-diethoxylated

alkylamine (1:5-1:3)

Conclusion/Summary Not available.

### Persistence and degradability

Not expected to be rapidly degradable.

### **Bioaccumulative potential**

Not available.

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### Section 12. Ecological information

**Mobility in soil** 

Soil/water partition coefficient (Koc)

Not available.

**Mobility** 

Non-volatile. Liquid. insoluble in water.

Other adverse effects

No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** 

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14. Transport information**

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

Special precautions for user Not

Not available.

Transport in bulk according

Not available.

to IMO instruments

### Section 15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b)

All components are active or exempted.

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

**SARA 311/312** 

Classification SKIN SENSITIZATION - Category 1

**SARA 313** 

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### Section 15. Regulatory information

	Product name	CAS number	Concentration
Form R - Reporting requirements	Zinc dialkyl dithiophosphate	68457-79-4	1.4142
Supplier notification	Zinc dialkyl dithiophosphate	68457-79-4	1.4142

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

Massachusetts The following components are listed: OIL MIST, MINERAL; OIL MIST, MINERAL; OIL

MIST, MINERAL

New Jersey The following components are listed: ZINC compounds

Pennsylvania The following components are listed: ZINC COMPOUNDS

California Prop. 65

▲ WARNING: This product can expose you to Ethyl acrylate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### Other regulations

Australia inventory (AIIC) At least one component is not listed.

Canada inventory At least one component is not listed in DSL but all such components are listed in NDSL.

China inventory (IECSC)

Japan inventory (CSCL)

Korea inventory (KECI)

Philippines inventory

All components are listed or exempted.

At least one component is not listed.

At least one component is not listed.

At least one component is not listed.

(PICCS)

Taiwan Chemical

**Substances Inventory** 

(TCSI)

REACH Status For the REACH status of this product please consult your company contact, as

All components are listed or exempted.

identified in Section 1.

### Section 16. Other information

### **National Fire Protection Association (U.S.A.)**



### **History**

Date of issue/Date of

revision

04/12/2022.

Date of previous issue

03/22/2022.

Prepared by

Product Stewardship

Key to abbreviations

ACGIH = American Conference of Industrial Hygienists

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

CAS Number = Chemical Abstracts Service Registry Number

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet

STEL = Short term exposure limit TWA = Time weighted average

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### Section 16. Other information

LIN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods. Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

#### Indicates information that has changed from previously issued version.

#### Notice to reader

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