

# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_GB

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : SynPower™ MST C5 0W/20  
Synthetic Motor Oil

Product code : 886742

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

Recommended use : Engine, gear & lubricating oil.

### 1.3 Details of the supplier of the safety data sheet

SDS@valvoline.com

### 1.4 Emergency telephone number

00-800-825-8654 / 001-859-202-3865, or contact your local emergency telephone number at 112

### Product Information

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

### 2.2 Label elements

### 2.3 Other hazards

#### Additional advice

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1		>= 40,00 - < 50,00
AMINES, POLYETHYLENEPOLY	147880-09-9 604-611-9		>= 2,50 - < 5,00

# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

- , REACTION PRODUCTS WITH 1,3-DIOXOLAN-2-ONE AND SUCCINIC ANHYDRIDE MONOPOLYISOBUTYLENYL DERIVS.			
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated	134758-95-5 603-861-6		$\geq 1,00 - < 2,50$
bis(nonylphenyl)amine	36878-20-3 253-249-4 01-2119488911-28-xxxx		$\geq 1,00 - < 2,50$
Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1)	114959-46-5 601-337-1		$\geq 0,50 - < 1,00$
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	722503-68-6		$\geq 0,50 - < 1,00$

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known or expected.

# SAFETY DATA SHEET

SynPower™ MST C5 0W20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.  
  
Hazardous combustion products : carbon dioxide and carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
  
Specific extinguishing methods : Product is compatible with standard fire-fighting agents.  
  
Further information : Standard procedure for chemical fires.

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## SECTION 6: Accidental release measures

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

Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.

### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

## 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

### 7.2 Conditions for safe storage, including any incompatibilities

Advice on common storage : No materials to be especially mentioned.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering measures

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Personal protective equipment

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection : Wear as appropriate:  
Safety shoes

Respiratory protection : No personal respiratory protective equipment normally required.

No personal respiratory protective equipment normally

# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: amber
Odour	: oily
Odour Threshold	: No data available
pH	: Not applicable
Pour point	: < -48 °C
Boiling point/boiling range	: No data available
Flash point	: 224 °C Method: Cleveland open cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 0,845 g/cm <sup>3</sup> (15,6 °C)
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: < 6.000 mPa.s (-35 °C)

# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

Viscosity, kinematic : 41 mm<sup>2</sup>/s (40 °C)  
Oxidizing properties : No data available

## 9.2 Other information

Self-ignition : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

### 10.4 Conditions to avoid

### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

#### Acute toxicity

#### Components:

#### HEAVY PARAFFINIC DISTILLATE:

Acute oral toxicity : LD<sub>50</sub> (Rat): > 15 g/kg  
Acute dermal toxicity : LD<sub>50</sub> (Rabbit): > 5 g/kg

#### Components:

# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

## REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.  
Remarks: Information given is based on data obtained from similar substances.

## Skin corrosion/irritation

### Components:

#### HEAVY PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

#### BORATED AMINE POLYMER:

Result: No skin irritation  
Remarks: Expected

## REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):

Species: Rabbit  
Result: Mild skin irritation  
Remarks: Information given is based on data obtained from similar substances.

## Serious eye damage/eye irritation

### Product:

Remarks: Unlikely to cause eye irritation or injury.

### Components:

#### HEAVY PARAFFINIC DISTILLATE:

Result: No eye irritation

#### BORATED AMINE POLYMER:

Result: No eye irritation  
Remarks: Expected

## REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):

Species: Rabbit  
Result: Slight, transient irritation  
Remarks: Information given is based on data obtained from similar substances.

## Respiratory or skin sensitisation

### Product:

Assessment: Does not cause skin sensitisation.

### Components:

#### REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):

Species: Guinea pig

# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Remarks: Information given is based on data obtained from similar substances.

**Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1):**

Assessment: May cause sensitisation by skin contact.

**Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts:**

Assessment: The product is a skin sensitiser, sub-category 1B.

## Germ cell mutagenicity

### Components:

#### REACTION PROD. OF BENZENEAMINE, N-PHENYL- W/ NONENE (BRANCHED):

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

## Carcinogenicity

## Reproductive toxicity

## Aspiration toxicity

### Components:

#### HEAVY PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

## Further information

### Product:

Remarks: No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

Distillates (petroleum), hydrotreated heavy paraffinic

Toxicity to fish : LL50 (Fish): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EL50 (Aquatic invertebrates): > 10.000 mg/l  
Exposure time: 48 h

Toxicity to algae : EL50 (Algae, algal mat (Algae)): > 100 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic) : NOEC: 10 mg/l



# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

toxicity) Species: **Fish**  
Toxicity to daphnia and other : **NOEC: 10 mg/l**  
aquatic invertebrates Species: **Aquatic invertebrates**  
(Chronic toxicity)

AMINES, POLYETHYLENEPOLY-, REACTION PRODUCTS WITH 1,3-DIOXOLAN-2-ONE AND SUCCINIC ANHYDRIDE MONOPOLYISOBUTENYL DERIVS.

Ecotoxicology Assessment

Long-term (chronic) aquatic : **May cause long lasting harmful effects to aquatic life.**  
hazard

Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated  
Ecotoxicology Assessment

Long-term (chronic) aquatic : **May cause long lasting harmful effects to aquatic life.**  
hazard

bis(nonylphenyl)amine

Toxicity to fish : **LC50 (Danio rerio (zebra fish)): > 100 mg/l**  
Exposure time: **96 h**  
Test Type: **static test**  
Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to daphnia and other : **EC50 (Daphnia magna (Water flea)): > 100 mg/l**  
aquatic invertebrates Exposure time: **48 h**  
Test Type: **static test**  
Test substance: **WAF**

Toxicity to algae : **EC50 (Pseudokirchneriella subcapitata (algae)): 600 mg/l**  
End point: **Growth inhibition**  
Exposure time: **72 h**  
Test Type: **static test**

Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1)

Ecotoxicology Assessment

Long-term (chronic) aquatic : **May cause long lasting harmful effects to aquatic life.**  
hazard

Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts

Ecotoxicology Assessment

Long-term (chronic) aquatic : **May cause long lasting harmful effects to aquatic life.**  
hazard

## 12.2 Persistence and degradability

### Components:

bis(nonylphenyl)amine

Biodegradability : Result: **Not readily biodegradable.**  
Biodegradation: **0 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301B**

# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

## 12.3 Bioaccumulative potential

### Components:

bis(nonylphenyl)amine

Partition coefficient: n-octanol/water : log Pow: > 7,5

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

Not relevant

## 12.6 Other adverse effects

### Product:

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Contaminated packaging : Empty remaining contents.

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## SECTION 14: Transport information

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AICS : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : On TSCA Inventory

#### Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

### 15.2 Chemical safety assessment

No data available

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## SECTION 16: Other information

#### Further information

Internal information : 000000274893

#### Full text of H-Statements

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable

# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

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to their circumstances. This SDS has been prepared by  
Valvoline's Environmental Health and Safety Department  
(+31 (0)78 654 3500).

## Sources of key data used to compile the Safety Data Sheet

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
BEI : Biological Exposure Index  
CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
FG : Food grade  
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
H-statement : Hazard Statement  
IATA : International Air Transport Association.  
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO : International Civil Aviation Organization  
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
IMDG : International Maritime Code for Dangerous Goods  
ISO : International Organization for Standardization  
logPow : octanol-water partition coefficient  
LCxx : Lethal Concentration, for xx percent of test population  
LDxx : Lethal Dose, for xx percent of test population.  
ICxx : Inhibitory Concentration for xx of a substance  
Ecxx : Effective Concentration of xx  
N.O.S.: Not Otherwise Specified  
OECD : Organization for Economic Co-operation and Development  
OEL : Occupational Exposure Limit  
P-Statement : Precautionary Statement  
PBT : Persistent , Bioaccumulative and Toxic  
PPE : Personal Protective Equipment  
STEL : Short-term exposure limit  
STOT : Specific Target Organ Toxicity  
TLV : Threshold Limit Value  
TWA : Time-weighted average  
vPvB : Very Persistent and Very Bioaccumulative  
WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands  
ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.  
ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine  
CLP : Classification, Labelling and Packaging  
CSA : Chemical Safety Assessment  
CSR : Chemical Safety Report  
DNEL : Derived No Effect Level.  
EINECS : European Inventory of Existing Commercial Chemical Substances.  
ELINCS : European List of Notified Chemical Substances  
PEC : Predicted Effect Concentration  
PEL : Permissible Exposure Limits

# SAFETY DATA SHEET

SynPower™ MST C5 0W/20 Synthetic Motor Oil

Version: 2.0

Revision Date: 27.05.2021

Print Date: 19/09/2022

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PNEC : Predicted No Effect Concentration

R-phrase : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-phrase: Safety phrase

WGK : German Water Hazard Class