



## 1 Identification

- **Product identifier**
- **Trade name:** CROSS POWER 4T SAE 10W/60 JASO MA2
- **Application of the substance / the mixture**  
 Only for proper handling.  
 Engine oil
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 MOTOREX AG  
 Bern-Zürich-Strasse 31, Postfach  
 CH-4901 Langenthal  
 Tel. +41 (0)62 919 75 75  
 www.motorex.com
- **Information department:** msds@motorex.com
- **Emergency telephone number:**  
 USA + Kanada: 1 800 424 9300 (Chemtrec Chemical Manufacturers Association, Arlington, VA 22209)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
 Aquatic Acute 3 H402 Harmful to aquatic life.  
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **Label elements**
- **GHS label elements**  
 The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**  
 H402 Harmful to aquatic life.  
 H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
 P273 Avoid release to the environment.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**  

 Health = 0  
 Fire = 1  
 Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**  

 HEALTH = 0 Health = \*0  
 FIRE = 1 Fire = 1  
 REACTIVITY = 0 Reactivity = 0
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

	Mineral oils (mixture) Asp. Tox. 1, H304	≥2.5-≤7.5%
CAS: 84605-29-8 EINECS: 283-392-8	Phosphorodithioic acid, mixed O,O-bis (1,3-diethylbutyl and iso-Pr)esters, zinc salts Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Aquatic Acute 2, H401	≥0.25-<2.5%
EC number: 947-519-7	Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. Para-, calcium salts Skin Sens. 1B, H317	0.1-0.25%
CAS: 121158-58-5 EC number: 310-154-3 Index number: 604-092-00-9	phenol, dodecyl-, branched Repr. 1A, H360; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)	≥0.0025-<0.025%

- **Additional information:**

Note L: The classification as carcinogen does not apply because the mixture (or substance) contains less than 3% dimethyl sulfoxide extract (DMSO), measured according to IP 346.

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Remove residues with soap and water.  
Remove contaminated clothing immediately.
- **After eye contact:**  
Rinse opened eye for several minutes under running water.  
Consult a physician if irritation develops.
- **After swallowing:**  
Do not induce vomiting. Do not take in resorption stimulating agents.  
Consult a physician who will decide on need and method of emptying the stomach.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**  
In case of fire carbon, sulphur and phosphorus oxides can be formed.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.

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- **Environmental precautions:**

Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

- **Reference to other sections**

No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	140 mg/m <sup>3</sup>
122-39-4	diphenylamine	30 mg/m <sup>3</sup>
108-31-6	maleic anhydride	0.2 ppm

- **PAC-2:**

64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	1,500 mg/m <sup>3</sup>
122-39-4	diphenylamine	180 mg/m <sup>3</sup>
108-31-6	maleic anhydride	2 ppm

- **PAC-3:**

64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	8,900 mg/m <sup>3</sup>
122-39-4	diphenylamine	220 mg/m <sup>3</sup>
108-31-6	maleic anhydride	20 ppm

## 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Used oils (motor oils, gear oils, industrial oils) contain components causing skin cancer. Therefore, avoid skin contact by wearing protecting gloves. Carefully clean soiled parts of the skin with soap.

- **Information about protection against explosions and fires:** Do not heat above flash point.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** No special requirements.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

Store containers closed and protect against rain, dust, heat and other atmospheric influences.

- **Storage class:** 10

- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists that were valid during the creation were used as basis.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Breathing equipment:**  
Not necessary if room is well-ventilated.  
Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.
- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

· <b>Form:</b>	Fluid
· <b>Color:</b>	Dark yellow
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

#### · Change in condition

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.

· **Flash point:** >200 °C (>392 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 255 °C (491 °F) (DIN 51794)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

#### · Explosion limits:

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapor pressure:** < 0.1 hPa (20°C)

· **Density at 20 °C (68 °F):** 0.863 g/cm<sup>3</sup> (7.202 lbs/gal) (ASTM D 4052)

· **Relative density** Not determined.

· **Vapor density** Not determined.

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· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	168.3 mm <sup>2</sup> /s @ 40 °C (DIN 51562-1)
· <b>Solvent separation test</b>	
<b>VOC content:</b>	0.00 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

### 84605-29-8 Phosphorodithioic acid, mixed O,O-bis (1,3-diethylbutyl and iso-Pr)esters, zinc salts

Oral	NOEL	40 mg/kg/24h (rat)
	NOAEL	160 mg/kg/24h (rat)
Dermal	LD50	2,002 mg/kg (rat)
Inhalative	LC50 / 4h	2.3 mg/l (rat)

### 121158-58-5 phenol, dodecyl-, branched

Oral	LD50	2,100-2,200 mg/kg (rat)
	NOEL	5-50 mg/kg/24h (rat)
	NOAEL	60-100 mg/kg/24h (rat)
Dermal	LD50	15,000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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**· OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

**· Toxicity**
**· Aquatic toxicity:**
**84605-29-8 Phosphorodithioic acid, mixed O,O-bis (1,3-diethylbutyl and iso-Pr)esters, zinc salts**

LOEC	0.8 mg/l/21d (aquatic invertebrates)
LC50	46 mg/l/96h (fish)
EC50	10,000 mg/l/3h (microorganisms)
LL50	4.5 mg/l/96h (fish)
EL50	23 mg/l/48h (aquatic invertebrates)
EL50	21-24 mg/l/72h (algae / cyanobacteria)
NOEC	0.4-0.8 mg/l/21d (aquatic invertebrates)
NOELR	1.8 mg/l/96h (fish)
NOELR	10 mg/l/48h (aquatic invertebrates)

**Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. Para-, calcium salts**

LC50	>1,000 mg/l/96h (Pimephales promelas) >100 mg/l/96h (rainbow trout)
EC50	>1,000 mg/l/96h (Alga)

**121158-58-5 phenol, dodecyl-, branched**

EC50	1,000 mg/l/3h (microorganisms)
EC50	0.106 mg/l/24h (aquatic invertebrates)
EC10	0.53-0.765 mg/l/72h (algae / cyanobacteria)
EC50	0.15-0.765 mg/l/72h (algae / cyanobacteria)
EC50	0.0079-0.0086 mg/l/21d (aquatic invertebrates)
EC100	160 mg/l/48h (aquatic invertebrates)
EC0	0.056 mg/l/48h (aquatic invertebrates)
EC50	0.037-0.0927 mg/l/48h (aquatic invertebrates)
EL50	40 mg/l/96h (fish)
NOEC	0.0037 mg/l/21d (aquatic invertebrates)
NOEC	0.07-0.442 mg/l/72h (algae / cyanobacteria)
NOEC	0.011 mg/l/48h (aquatic invertebrates)
NOEC	1,000 mg/l/3h (microorganisms)
NOELR	25 mg/l/96h (fish)

**· Persistence and degradability** No further relevant information available.

**· Behavior in environmental systems:**
**· Bioaccumulative potential**
**84605-29-8 Phosphorodithioic acid, mixed O,O-bis (1,3-diethylbutyl and iso-Pr)esters, zinc salts**

Partition coefficient	0.56 [---] (log Kow) (Bioaccumulation)
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**121158-58-5 phenol, dodecyl-, branched**

Partition coefficient	6.1-7.14 [---] (log Kow) (Bioaccumulation)
Biologische Abbaubarkeit	<10 % (28d) (Biodegradability) (OECD 302 D)

**· Mobility in soil** No further relevant information available.

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- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Contact waste processors for recycling information.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · <b>DOT, ADR/RID/ADN, ADN, IMDG, IATA</b>                                       | Void            |
| · <b>UN proper shipping name</b>   |                 |
| · <b>DOT, ADR/RID/ADN, ADN, IMDG, IATA</b>                                       | Void            |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>DOT, ADR/RID/ADN, ADN, IMDG, IATA</b>                                       |                 |
| · <b>Class</b>   | Void            |
| · <b>Packing group</b>   |                 |
| · <b>DOT, ADR/RID/ADN, IMDG, IATA</b>  | Void            |
| · <b>Environmental hazards:</b>  |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Void            |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**  
None of the ingredients is listed.

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**· Section 313 (Specific toxic chemical listings):**

122-39-4 diphenylamine

108-31-6 maleic anhydride

**· TSCA (Toxic Substances Control Act):**

72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ACTIVE

26401-35-4 DTDA ACTIVE

72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ACTIVE

84605-29-8 Phosphorodithioic acid, mixed O,O-bis (1,3-diethylbutyl and iso-Pr)esters, zinc salts ACTIVE

36878-20-3 Reaction products of Benzeneamine, N-phenyl- with nonene (branched) ACTIVE

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic ACTIVE

64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic ACTIVE

91273-04-0 N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine ACTIVE

64741-88-4 Distillates (petroleum), solvent-refined heavy paraffinic ACTIVE

122-39-4 diphenylamine ACTIVE

106-20-7 bis(2-ethylhexyl)amine ACTIVE

288-88-0 1,2,4-triazole ACTIVE

108-31-6 maleic anhydride ACTIVE

**· Hazardous Air Pollutants**

108-31-6 maleic anhydride

**· Proposition 65**
**· Chemicals known to cause cancer:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Carcinogenic categories**
**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value)**

122-39-4 diphenylamine A4

108-31-6 maleic anhydride A4

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· National chemical directories**

Components listed or exempted from listing:

EINECS/ELINGS/NLP (EU)

TSCA (USA)

DSL/NDSL (CDN)

ENCS/METI (J)

AICS (Aus)

IECSC (CN)

ECL/KECI (KOR)

HSNO (NZ)

PICCS (RP)

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· **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

*The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.*

*No special training instructions to ensure protection of human health and environment are required.*

· **Department issuing SDS:** Abteilung Produktsicherheit

· **Contact:**

· **Date of preparation / last revision** 09/17/2021 / -

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Repr. 1A: Reproductive toxicity – Category 1A

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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