

## **MASUTA OIL CORPORATION**

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## MATERIAL SAFETY DATA SHEET

| 1.   | PRODUCT IDENTIFICATION AND COMPANY   |   |                                     |  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
|--|--------------------------------------|---|-------------------------------------|--|-------------------------|--|-------------------------------|--|--|--|--|--|--|--|--|--|--|
|  | Issue Date                           | 01.01.2023                                      |                                     |  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Validity Period                      | 3 years   |                                     |  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Product Name                         | MASUTA MOLY-TRIMER SM/CF 5W-40 100% Synthetic   |                                     |  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Product Code                         | MJ-M12  |                                     |  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
|  |                                      | MAS   | MASUTA Oil Corporation              |  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Producer                             | 9-1 MEIZAN-CHO, Kagoshima City, 892-0821, Japan |                                     |  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
|  | i roducei                            |   |                                     |  |                         | .87. Fax: +81-3-   | ·5532 <b>-</b> 8              | <u>3188</u>                              |  |  |  |  |  |  |  |  |  |
|  |                                      | E-m   | ail: in                             | fo@m                                       | asut                    | aoil.com   |                               |  |  |  |  |  |  |  |  |  |  |
|  |                                      |   |                                     |  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
| 2.   | COMPOSITION                          |   |                                     |  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Base Oil Content                     | 75  | _                                   | 9  | %                       |  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Additives Content                    | 10  | _                                   | 0  | %                       |  |                               |  |  |  |  |  |  |  |  |  |  |
|  |                                      |   |                                     | 2  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
| 3.   | HAZARDS IDENTIFICATION               |   |                                     |  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Human Health                         | Proc  | luct is                             | 5<br>not h                                 | azar                    | dous.  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Eye Contact                          | Sligh   | ntlv iri                            | ritant.                                    |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
| Inhalation Repeated and prolonged over-exposure to oil mists may cause irritat discomfort. |                                      |   |                                     |  |                         | n or   |                               |  |  |  |  |  |  |  |  |  |  |
|  |                                      |   |                                     |  |                         | ,  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Safety Hazards                       | Mini  | mal to                              | oxicity                                    | <b>'</b> .              |  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Environmental                        | Not   | classi                              | fied a                                     | s flar                  | mmable but will  | burn.                         |  | Not classified as flammable but will burn. |  |  |  |  |  |  |  |  |
|  | Hazards Not readily biodegradable.   |   |                                     |  |                         |  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Hazards                              |   | readil                              | y bioc                                     | legra                   | ıdable.  |                               |  |  |  |  |  |  |  |  |  |  |
|  | Hazards                              |   | readil                              | y bioc                                     | legra                   | dable.   |                               |  |  |  |  |  |  |  |  |  |  |
| 4.   | Hazards FIRST AID                    |   | readil                              | y biod                                     | legra                   | dable.   |                               |  |  |  |  |  |  |  |  |  |  |
| 4.   | FIRST AID                            | Not   |                                     |  |                         |  | ter until                     | irritation subsides. If irritati         | on persists,                               |  |  |  |  |  |  |  |  |
| 1.   |                                      | Not   | h eye                               |  | larg                    | e amount of wat  | ter until                     | irritation subsides. If irritati         | on persists,                               |  |  |  |  |  |  |  |  |
| 4.   | FIRST AID                            | Flus get r                                      | h eye<br>medic                      | s with                                     | larg<br>entio           | e amount of wat<br>n.  | se soap                       | if available. Remove contan              |  |  |  |  |  |  |  |  |  |
| 4.   | FIRST AID  Eye Contact               | Flus get r                                      | h eye<br>medic<br>h with<br>ning. 1 | s with<br>cal atte<br>n large<br>If irrita | larg<br>entio<br>e amo  | e amount of wat<br>n.<br>ount of water; us<br>persists, get me                     | se soap<br>edical a           | if available. Remove contan              | ninated                                    |  |  |  |  |  |  |  |  |
| 4.   | FIRST AID  Eye Contact  Skin Contact | Flus get r Flus clott                           | h eye<br>medic<br>h with<br>ning. I | s with<br>cal atte<br>n large<br>If irrita | larg<br>ention<br>ation | e amount of wat<br>n.<br>Dunt of water; us<br>persists, get me<br>If rapid recover | se soap<br>edical a<br>y does | if available. Remove contan<br>ttention. | ninated                                    |  |  |  |  |  |  |  |  |

|    | Flash Point  | > 219 °C   |  |  |   |                   |  |  |  |  |  |  |
|----|--|--|--|--|---|-------------------|--|--|--|--|--|--|
|    | Flammable Limit  | Not classified as flammable but will burn. Hazardous combustion products may include carbon monoxide, oxides of sulphur, and unidentified organic and inorganic compounds. |  |  |   |                   |  |  |  |  |  |  |
|    | Autoignition Tomp  |  | > 314 °C   |  |   |                   |  |  |  |  |  |  |
|    | Autoignition Temp  |  |  |  |   |                   |  |  |  |  |  |  |
|    | Specific Hazards   |  | n. Hazardous combustion proc<br>phur, and unidentified organic | •  |   |                   |  |  |  |  |  |  |
|    |  | Use dry cher   | nical, fo  | am or carbon dioxi   | de to extinguish fire. Water ma   | y cause           |  |  |  |  |  |  |
|    | Fire Fighting  | splattering o  | terial. Wear   |  |   |                   |  |  |  |  |  |  |
|    |  |  |  |  |   |                   |  |  |  |  |  |  |
| 6. | ACCIDENTAL RELEAS  | E MEASURES   |  |  |   |                   |  |  |  |  |  |  |
|    |  | Stop the sou   | re of lea  | ak or release and con  | tain spill if possible. Cover spill w   | vith              |  |  |  |  |  |  |
|    | Olasar va Dua a dava   | 1  |  |  | rial such as sand or earth. Sweep   |                   |  |  |  |  |  |  |
|    | Clean-up Procedure   | 1-   |  |  | disposal in accordance with local   |                   |  |  |  |  |  |  |
|    |  | regulati.  | <b>,</b>   | 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2                         |   |                   |  |  |  |  |  |  |
|    |  | 1 - 8  |  |  |   |                   |  |  |  |  |  |  |
| 7. | HANDLING AND STOR  | RAGE   |  |  |   |                   |  |  |  |  |  |  |
| ٠. |  | -  |  |  |   |                   |  |  |  |  |  |  |
|    | Handling   |  |  |  | ed 70°C. Wear proper safety p<br>er handling. Water contaminati                               |                   |  |  |  |  |  |  |
|    | nanding  | spillage sho   |  |  | or nandting. Water contaminati  | on and            |  |  |  |  |  |  |
|    |  |  |  |  | ained between 0 to 50°C. Odor   | ous and           |  |  |  |  |  |  |
|    | Storage  | 0  |  |  | nposition of product if stored a  |                   |  |  |  |  |  |  |
|    |  | safe temper  | ature.   |  |   |                   |  |  |  |  |  |  |
|    |  |  |  |  |   |                   |  |  |  |  |  |  |
| 8. | EXPOSURE CONTROL   | /PERSONAL F  | ROTEC  | TION   |   |                   |  |  |  |  |  |  |
| 0. |  | 1  |  |  |   |                   |  |  |  |  |  |  |
|    | Exposure Limits  |  |  | ues for oil mist is red<br>of 8 hours daily.                     | commended to be controlled a  | t 5 mg/m3 or      |  |  |  |  |  |  |
|    | Ventilation  | Exhaust ven  | tilation   | to keep below expo   | sure limits.  |                   |  |  |  |  |  |  |
|    | Eye Protection   | Wear safety  | glasses  | or face shields if sp  | lashing is likely to occur.   |                   |  |  |  |  |  |  |
|    | Skin Protection  | Avoid repeat   | ed and   | prolonged contact v  | with product. Use oil resistant g   | gloves.           |  |  |  |  |  |  |
|    | Respiratory ProtectionNot normally required unless in confined space.  |  |  |  |   |                   |  |  |  |  |  |  |
|    |  | Use proper protective equipment to avoid contact. Wear PVC apron if splashes are likely to occur.  |  |  |   |                   |  |  |  |  |  |  |
|    | Body Protection  |  |  | ve equipment to avo  | oid contact. Wear PVC apron if  | splashes          |  |  |  |  |  |  |
|    | Body Protection  |  |  | ve equipment to avo  | oid contact. Wear PVC apron if  | splashes          |  |  |  |  |  |  |
| 9. | Body Protection  PHYSICAL AND CHEM   | are likely to  | occur.   | ve equipment to avo  | oid contact. Wear PVC apron if  | splashes          |  |  |  |  |  |  |
| 9. | PHYSICAL AND CHEM This information is bas  | are likely to  | RTIES ent kno  | wledge and is inten  | ded to describe the product for ot be construed as guaranteeing                               | r the purposes of |  |  |  |  |  |  |
| 9. | PHYSICAL AND CHEM  This information is bas health, safety and envi   | are likely to  | RTIES ent kno  | wledge and is inten  | ded to describe the product fo  | r the purposes of |  |  |  |  |  |  |
| 9. | PHYSICAL AND CHEM This information is bas health, safety and envi property of the product TEST DESCRIPTION                     | are likely to  MICAL PROPEI  sed on our curr  ironmental req   | RTIES ent kno  | wledge and is inten<br>nts only. It should n                     | ded to describe the product fo<br>ot be construed as guaranteei                               | r the purposes of |  |  |  |  |  |  |
| 9. | PHYSICAL AND CHEM  This information is bas health, safety and envi property of the produce                                     | are likely to  MICAL PROPEI  sed on our curr ironmental requit.  UNI   | RTIES ent kno  | wledge and is inten<br>nts only. It should n                     | ded to describe the product fo<br>ot be construed as guaranteei<br>TYPICAL RESULTS            | r the purposes of |  |  |  |  |  |  |
| 9. | PHYSICAL AND CHEM  This information is bas health, safety and envi property of the product  TEST DESCRIPTION  Appearance       | are likely to  MICAL PROPEI  sed on our curr  fronmental require.  UNI T   | RTIES ent kno  | wledge and is inten<br>nts only. It should n<br>METHOD<br>Visual | ded to describe the product fo ot be construed as guaranteeid  TYPICAL RESULTS  B & C         | r the purposes of |  |  |  |  |  |  |
| 9. | PHYSICAL AND CHEM  This information is bas health, safety and envi property of the product  TEST DESCRIPTION  Appearance Color | are likely to  MICAL PROPEI  sed on our curr  fronmental requit.  UNI  T   | RTIES ent kno  | wledge and is intennts only. It should n  METHOD  Visual  D 1500 | ded to describe the product for ot be construed as guaranteein   TYPICAL RESULTS  B & C  <2,5 | r the purposes of |  |  |  |  |  |  |

|     | Kinematic Viscosity   | cSt   | D 445                | 14,20  |         |  |  |  |  |  |  |  |
|-----|---|---|----------------------|--|---------|--|--|--|--|--|--|--|
|     | at 100 °C   | CSI   |                      | ·  |         |  |  |  |  |  |  |  |
|     | Viscosity Index   | - D 2270 176  |                      |  |         |  |  |  |  |  |  |  |
|     | Total Base Number   | mgKOH/g   | D 2896               | 7,50   |         |  |  |  |  |  |  |  |
|     | Flash Point, COC  | °C  | D 92                 | 224  |         |  |  |  |  |  |  |  |
|     | Pour Point  | °C  | D 97                 | -39  |         |  |  |  |  |  |  |  |
|     | ccs   | сР  | D 5293               | 4211   |         |  |  |  |  |  |  |  |
| 10. | STABILITY AND REACTIVITY  |   |                      |  |         |  |  |  |  |  |  |  |
|     | Stability   |   |                      |  |         |  |  |  |  |  |  |  |
|     | Thermal<br>Decomposition  | Carbon monoxide, carbon dioxide, oxides of sulphur and nitrogen and organic and inorganic compound may evolve when subject to heat or combustion. |                      |  |         |  |  |  |  |  |  |  |
|     | Hazardous Polymerisation  | Will not occur unde   | r normal conditions. |  |         |  |  |  |  |  |  |  |
|     | Incompatible Material   | ls\$trong oxidizing agents. Strong acids  |                      |  |         |  |  |  |  |  |  |  |
|     |   |   |                      |  |         |  |  |  |  |  |  |  |
| 11. | TOXICOLOGICAL INFORMATION   |   |                      |  |         |  |  |  |  |  |  |  |
|     | Basis   | No toxicological data is available for this product. Information is provided based on the additives, other components and base stock used.        |                      |  |         |  |  |  |  |  |  |  |
|     | Acute Exposure Oral   | LD 50 expected to be above 2000 mg/kg   |                      |  |         |  |  |  |  |  |  |  |
|     | Acute Exposure Skin   | LD 50 expected to be above 2000 mg/kg   |                      |  |         |  |  |  |  |  |  |  |
|     | Inhalation  | Repeated or prolonged exposure to oil mists may cause irritation.   |                      |  |         |  |  |  |  |  |  |  |
|     | Eye Irritation  | Slightly irritant.  |                      |  |         |  |  |  |  |  |  |  |
|     | Skin Irritation   | Not a skin irritant unless repeated or prolonged contact.   |                      |  |         |  |  |  |  |  |  |  |
|     | Respiratory Irritation  | Slight irritant.  | Slight irritant.     |  |         |  |  |  |  |  |  |  |
|     | Carcinogenicity   | No data to suggest that product is carcinogenic.  |                      |  |         |  |  |  |  |  |  |  |
|     | Mutagenicity  | No data to suggest  | that product is muta | genic.   |         |  |  |  |  |  |  |  |
|     | Other Information   | Brief contact with used oil is not expected to have serious effect in humans if the oil is removed thoroughly by washing with soap and water.     |                      |  |         |  |  |  |  |  |  |  |
|     | npurities that have accumulated des will depend on use and they predisposal. All used oils should be ha | sent  |                      |  |         |  |  |  |  |  |  |  |
|     |   |   |                      |  |         |  |  |  |  |  |  |  |
| 12. | ECOLOGICAL INFORMATION  |   |                      |  |         |  |  |  |  |  |  |  |
|     | Basis   | No ecological data i<br>the additives, other  |                      | roduct. Information is provided ba<br>se stock used. | ised on |  |  |  |  |  |  |  |

|  | Mobility   |   | quid under most environmental conditions. Floats on water. It absorbed by soil and will not be mobile. |                      |  |  |   |   |   |  |  |  |
|--|--|---|--|----------------------|--|--|---|---|---|--|--|--|
|  | Persistence/<br>Degradability  | biod  |  | erently<br>st in the |  |  |   |   |   |  |  |  |
|  | Bioaccumulation  | Has   | Has the potential to bioaccumulate.  |                      |  |  |   |   |   |  |  |  |
|  | Ecotoxicity  | Poor soluble mixture. Practically non-toxic to aquatic organisms.  May cause physical fouling of aquatic organisms. |  |                      |  |  |   |   |   |  |  |  |
|  |  |   |  |                      |  |  |   |   |   |  |  |  |
| 13.  | DISPOSAL CONSIDER  | RATIO   | N  |                      |  |  |   |   |   |  |  |  |
| Product Disposal  Used or waste oil should be recycled or disposed off in conform regulations. Contact local authorities for approved disposal conformation. |  |   |  |                      |  |  | • | • |   |  |  |  |
|  | Container Disposal Empty drums should be completely drained and sent to a drum record properly disposed of. Non-reusable small containers should be recycled disposed of. Ensure conformity to local disposal regulations. |   |  |                      |  |  |   |   |   |  |  |  |
|  |  |   |  |                      |  |  |   |   |   |  |  |  |
| 14.  | TRANSPORT INFORMATION  |   |  |                      |  |  |   |   |   |  |  |  |
|  | General Information  | Not   | Not dangerous for conveyance under UN, IMO, ADR/RID and IATA/ICAO codes.                               |                      |  |  |   |   |   |  |  |  |
|  |  |   |  |                      |  |  |   |   |   |  |  |  |
| 15.  | REGULATORY INFORMATION   |   |  |                      |  |  |   |   |   |  |  |  |
|  | Not Applicable.  |   |  |                      |  |  |   |   |   |  |  |  |
|  |  |   |  |                      |  |  |   |   |   |  |  |  |
| 16   | OTHER INFORMATIO   | N   |  |                      |  |  |   |   | · |  |  |  |

## 16. OTHER INFORMATION

The above information is based on data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. Therefore, no warranty either express or implied of merchantability or fitness for particular purpose is made with respect to the product or the information contained herein.