SAFETY DATA SHEET



According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

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

1.1. Product identifier

Trade name or designation

MAKER ASTRA 100

of the mixture

Registration number

Synonyms None. RP_6140J **Product code**

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

Industrial applications. Identified uses

Uses advised against All other uses.

1.3. Details of the supplier of the safety data sheet

REPSOL LUBRICANTES Y ESPECIALIDADES, S.A. Company name

Méndez Álvaro, 44 28045 - MADRID, Spain Address

+34 917538000 /+34 917538100 Telephone

Fax +34 902303145

Email address FDSRLESA@repsol.com

1.4. Emergency telephone number

Carechem 24 +34 91 114 2520 / +44 1235 239670

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

None. Hazard pictograms None Signal word

Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

Prevention Not assigned. Not assigned. Response Storage Not assigned. **Disposal** Not assigned.

Supplemental information on

the label

EUH208 - Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl.

May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

Please refer to Sections 5, 6 and 7 of this SDS for information on other hazards, different from

classification hazards but which may contribute to the overall hazards of the product.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

MAKER ASTRA 100 SDS Spain

959966 Version #: 01 Revision date: - Issue date: 02-November-2021 **General information**

Chemical name % CAS-No. / EC No. REACH Registration No. **Notes** Index No. 01-2119493620-38-XXXX 0,1 - 0,25Reaction products of 931-384-6 4-methyl-2-pentanol and diphosphorus pentasulfide,

propoxylated, esterified with

diphosphorus pentaoxide, and salted

by amines, C12-14- tert-alkyl

Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg), Eye Dam. 1;H318, Skin Sens.

1B;H317, Aquatic Chronic 2;H411

Specific Concentration Limits: Eye Irrit. 2;H319: $50 \% < C \le 100 \%$

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines

0.06 - <1213789-63-9 0.1

01-2119473797-19-XXXX

Classification: Acute Tox. 4;H302;(ATE: 1200 mg/kg), Skin Corr. 1B;H314, STOT SE

3;H335, STOT RE 2;H373, Asp. Tox. 1;H304, Aquatic Acute

1;H400(M=10), Aquatic Chronic 1;H410(M=10)

List of abbreviations and symbols that may be used above

M: M-factor

ATE: Acute toxicity estimate.

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume. The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if Eye contact

irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and

delayed

Exposure may cause temporary irritation, redness, or discomfort.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

Will burn if involved in a fire. General fire hazards

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Sulphur oxides. Phosphorus compounds.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

During fire, gases hazardous to health may be formed such as: Carbon oxides. Nitrogen Oxides.

Special fire fighting

procedures

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid breathing mist/vapours. Follow standard emergency procedure. Wear appropriate personal protective equipment (See Section 8).

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For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Provide adequate ventilation. Wear appropriate personal protective equipment. Ensure safe systems of work or equivalent arrangements are in place to manage risks. Observe good industrial hygiene practices. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s)

Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

Industrial applications.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Spain. Occupational Exposure Limits Product	Туре	Value	Form
Oil mist, mineral	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Dei

ved no effect levels (DNELs)			
General Population			
Components	Value	Assessment factor	Notes
Reaction products of 4-methyl-2-pentanol and salted by amines, C12-14- tert-alkyl (ulfide, propoxylated, esterified	with diphosphorus pentaoxide
Long-term, Local, Dermal	160 μg/cm2	15	Skin sensitisation
Long-term, Systemic, Dermal	6,25 mg/kg	240	Repeated dose toxicity
Long-term, Systemic, Inhalation	1,09 mg/m3	60	Repeated dose toxicity
Long-term, Systemic, Oral	0,25 mg/kg	600	Repeated dose toxicity
Short-term, Local, Dermal	160 μg/cm2	15	Skin sensitisation
<u>Workers</u>			
Components	Value	Assessment factor	Notes
Distillates (petroleum), solvent-dewaxed h	neavy paraffinic (CAS 6474	2-65-0)	
Long-term, Local, Inhalation	5,6 mg/m3		
Reaction products of 4-methyl-2-pentanol and salted by amines, C12-14- tert-alkyl (ulfide, propoxylated, esterified	with diphosphorus pentaoxid
Long-term, Local, Dermal	160 μg/cm2	15	Skin sensitisation
Long-term, Systemic, Dermal	12,5 mg/kg	120	Repeated dose toxicity
Long-term, Systemic, Inhalation	4,28 mg/m3	30	Repeated dose toxicity
Short-term, Local, Dermal	160 μg/cm2	15	Skin sensitisation

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes	
Distillates (petroleum), solvent-dewaxe	ed heavy paraffinic (CAS 647	742-65-0)		
Secondary poisoning	9,33 mg/kg		Oral	

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl (CAS -)

Freshwater	2,4 μg/l	50	
Marine water	0,24 μg/l	500	
Secondary poisoning	10 mg/kg	300	Oral
Sediment (freshwater)	12,9 µg/kg		
Sediment (marine water)	1,29 µg/kg		
Soil	1,17 µg/kg		
STP	24,33 mg/l	100	

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information

The choice of the most appropriate personal protective equipment in each case depends, among other factors, on the nature of the work to be done and the conditions in which it is carried out. To do so, take the relevant risk analyses into account and consult the safety officer and/or equipment suppliers, if necessary, to make the right choice. In any case, the equipment must comply with the currently applicable CEN standards. Workers using this equipment must have received the required training in the use of the same.

Eye/face protection

Wear safety glasses with side shields (or goggles). Eye protection should meet standard EN 166.

Skin protection

- Hand protection

Wear appropriate chemical resistant gloves. Always wear chemical-resistant protective gloves that comply with EN 374 to handle this product. Observe good industrial hygiene practices and wash gloves with soap and water before removing them. Assess the working conditions and always consult your glove supplier for information on the most suitable type of glove for each task and the required material, thickness, and breakthrough time specifications. The use of type-B gloves in accordance with EN 374 is recommended as a minimum protection against intermittent or splash contact. Consult your supplier to find the most suitable option for the product in question. The requirements of EN 388 must be taken into account for applications involving mechanical hazards with the risk of abrasion or incision. The requirements outlined in EN 407 must be taken into consideration for tasks involving thermal hazards.

- Other

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with combination filter (type A2/P2) can be used. Respiratory protection should meet standard EN 14387. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Appropriate respirator selection should be made by a qualified professional.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

Product should not reach the environment through wastewater or sewage. Measures to take in case of accidental release can be found in Section 6 of this SDS.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Form
Liquid.

Colour
L4.0 max.

Odour
Characteristic.

Melting point/freezing point
-15 °C (5 °F)

Boiling point or initial boiling point and boiling range

Property has not been measured.

Flammability Will burn if involved in a fire.

Lower and upper explosion limit

Explosive limit - lower (%) Property has not been measured.

Explosive limit - upper

(%)

Property has not been measured.

Flash point $> 220 \, ^{\circ}\text{C} \, (> 428 \, ^{\circ}\text{F})$

Auto-ignition temperatureProperty has not been measured.Decomposition temperatureProperty has not been measured.pHProperty has not been measured.

Kinematic viscosity 11 mm²/s (100 °C (212 °F)) 100 mm²/s (40 °C (104 °F))

Solubility

Vapour pressure

Solubility (water) Property has not been measured. **Partition coefficient** Property has not been measured.

(n-octanol/water) (log value)

Property has not been measured.

Density and/or relative density

Density 0,888 g/cm³ (15 °C)

Vapour densityProperty has not been measured.Particle characteristicsNot applicable, material is a liquid.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

9.2.2. Other safetyNo relevant additional information available.

characteristics

SECTION 10: Stability and reactivity

10.1. ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoidContact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

InhalationProlonged inhalation may be harmful.Skin contactMay cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed.

Symptoms Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product Species Test Results

MAKER ASTRA 100 (CAS Mixture)

Acute Dermal

ATE > 5000 mg/kg

Oral

Skin corrosion/irritation

ATE > 5000 mg/kg

Serious eye damage/eye

irritation

Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.

Respiratory sensitisationDue to partial or complete lack of data the classification is not possible.

Skin sensitisationThe product contains a small amount of sensitising substance which may provoke an allergic

reaction among sensitive individuals.

Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity

Due to partial or complete lack of data the classification is not possible. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Oil mist, mineral (CAS -) 3 Not classifiable as to carcinogenicity to humans.

Due to partial or complete lack of data the classification is not possible. Reproductive toxicity

Specific target organ toxicity -Due to partial or complete lack of data the classification is not possible. single exposure

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Based on available data, the classification criteria are not met.

Mixture versus substance

information

No information available.

11.2. Information on other hazards

Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Prolonged or repeated contact with used oil may cause serious skin diseases. Other information

Unless otherwise stated, the health effects of this product are assessed on the basis of the

applicable calculation methods for classification.

SECTION 12: Ecological information

12.1. Toxicity Not expected to be harmful to aquatic organisms. The classification for this hazard is based on

information provided by the supplier.

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential No data available. Partition coefficient Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available No data available. 12.4. Mobility in soil

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

Oil spills are generally hazardous to the environment. 12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with local regulations. Empty containers or liners may retain some Residual waste

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

The Waste code should be assigned in discussion between the user, the producer and the waste EU waste code

disposal company.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Disposal methods/information

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number Not regulated as dangerous goods. 14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk

Not assigned. Hazard No. (ADR) **Tunnel restriction code** Not assigned. 14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

RID

14.1. UN numberNot regulated as dangerous goods. **14.2. UN proper shipping**Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

ADN

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

IATA

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

IMDG

14.1. UN number14.2. UN proper shippingNot regulated as dangerous goods.Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk

14.4. Packing group Not assigned.

14.5. Environmental hazards

Marine pollutant

No.

EmS Not assigned. 14.6. Special precautions Not assigned.

for user

14.7. Maritime transport in bulk Not applicable.

according to IMO instruments

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Oil mist, mineral (CAS -)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Other regulations

Regulation) as amended.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as

amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland

Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute toxicity estimate. CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. IMO: International Maritime Organization.

NOEL: No Observed Effect Level.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TWA: Time Weighted Average.

vPvB: Very persistent and very bioaccumulative.

References **ECHA CHEM**

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

Training information Disclaimer

Follow training instructions when handling this material.

This Safety Data Sheet (SDS) refers exclusively to the substance/product specified in section 1 of this document.

The information provided in this SDS has been obtained according to the best information available on the basis of technical data that is considered reliable at the time of its preparation, and in accordance with the legal requirements in force concerning classification, packaging and labelling of dangerous substances, not involving the granting of any express or implied warranty or on the accuracy of the information contained therein or concerning its suitability for a particular use or specification.

The purchaser as the recipient of the substance/product specified in section 1 of this document to which this Safety Data Sheet (SDS) refers, is responsible for evaluating the information contained in the SDS, and for verifying that it is correct and appropriate for the intended use of the substance/product specified in section 1 of this document.

The purchaser, as the recipient of the substance/product specified in section 1 of this document referred to in this Safety Data Sheet (SDS) is also responsible for adequately managing the risks thereof in its place of work. Consequently, the purchaser is obliged, regarding its workers and representatives, as well as any other person who may handle, use or be exposed to the substance/product specified in section 1 of this document in their place of work to (i) facilitate access to the relevant information in this Safety Data Sheet (SDS), transmitting for this purpose the relevant indications included in the SDS, especially those relating to the risks of the product/substance specified in section 1 of this document for the safety and health of persons and for the environment. As well as (ii) ensuring that they receive and have adequate training in handling, using or being exposed to the product/substance specified in section 1 of this document in accordance with the guidance contained in the SDS.

Accordingly, no liability for damages to the recipient of the SDS arising out of the use of the information or the use of the substance/product specified in section 1 of this document shall be accepted.