

Safety Data Sheet – July 2016

According to Regulation EC No 1907/2006 - REACH and Regulation EC No 1272/2008 - CLP

S1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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1. Product identifier

Commercial name	Rubatán 184
Chemical name	2,2,4-Trimethyl-1,2-dihydroquinoline polymerized
CAS N°	26780-96-1
EC (EINECS) N°	500-051-3
Annex VI (EC) 1272/2008 N°	Not listed
REACH register number	01-2119486783-23-0001

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

Application	Antioxidant and antidegradant in rubber industry and additive in formulation of lubricants
Type of use	Industrial and/or professional
Sectors of use	SU3: Industrial use. Use of substances as such or in preparations at industrial sites; SU10: Formulation (mixing) of preparations and/or re-packaging (excluding alloys); SU11: Manufacture of rubber products; SU12: Manufacture of plastic products, including compounding and conversion; SU22: Professional uses: Public domain (Administration, education, entertainment, services, craftsmen).
Product category	PC17: Hydraulic fluids; PC24: Lubricants, greases, re-release products; PC25: Metalworking fluids; PC32: Polymer preparation and compounds: Production of tyres and general rubber goods.

1.3. Details of the supplier of the safety data sheet

Company	GENERAL QUÍMICA, S.A.U.
Address	Ctra. Miranda de Ebro-Puentelarrá, km. 4. 01213 Lantarón (Álava); ESPAÑA
Phone	(+34) 945 332 145
Fax	(+34) 945 332 888
e-mail address	SDSgequisa@repsol.com
Date	July 2016
Modification date	-
Revision number	-

1.4. Emergency telephone number

Emergency telephone number 24h Santander (Spain)	(+34) 911 142 520
Emergency telephone number 24h Altamira (Mexico)	(+44) (0) 1235 239 670

S2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification as per Regulation (EC) n.1272/2008

- Aquatic chronic cat. 3

Classification as per Dir 67/548/EEC

- R52/53

2.2. Label elements

Pictograms

- Not applicable.

Signal word

- Attention/Warning

Hazardous statements

- H412: Harmful to aquatic life with long lasting effects.

Precautionary statements

- P273: Avoid release to the environment.

2.3. Other hazards

The product does not meet the criteria to be considered PBT or vPvB.

S3 COMPOSITION/INFORMATION ON INGREDIENTS

2,2,4-Trimethyl-1,2-dihydroquinoline polymerized (*) (TMQ)

Classification Reg. (CE) 1272/2008	Concentration (%)
Aquatic chronic cat. 3; H412	100

(*) Este producto tiene la consideración de sustancia UVCB de conformidad con las directivas europeas y aparece en el catálogo NLP.

S4 FIRST AID MEASURES

4.1. – 4.2 Description of the first aid measures and most important symptoms and effects, both acute and delayed

Inhalation

- Remove affected person to fresh air.
- If breathing is difficult, give oxygen and seek immediate medical attention.

Ingestion/aspiration

- Seek immediate medical attention. Do not induce vomiting unless told to do so by a poison control centre or doctor. Never administer anything by mouth to an unconscious person.

Contact with the skin

- Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.
- Seek medical attention should irritation appears.
- Wash contaminated clothing thoroughly before reuse.

Contact with the eyes

- Flush immediately with plenty of water for at least 15 min. holding the eyelids open.
- Seek medical attention if irritation persists after washing.
- If worn, remove contact lenses immediately, unless they have adhered to eyes.

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

Administer treatment according to the patient's symptoms.

S5 | FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

- Use water spray, carbon dioxide, foam or dry powder.

Unsuitable extinguishing media

- Avoid using water jets as much as possible.

5.2. Special hazards arising from the substance or mixture

If the product burns, it emits toxic gases (carbon monoxide and dioxide, oxides of nitrogen) Avoid discharge into drains or watercourses.

5.3. Advice for firefighters

- Attack the fire from a safe distance and protected area. Use water spray to cool surfaces exposed to the fire. Avoid the presence of airborne dust because it is combustible.
- Fire-fighting personnel must wear approved protective clothing for firefighting and self-contained breathing apparatus

S6 | ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

- Avoid direct contact with the product and do not inhale fumes from the hot product.
- Keep non-essential personnel away. Ventilate closed spaces before entering.

Personal protection

- Use of safety goggles, gloves and protective clothing of a suitable material.
- Use of respiratory protective mask with filter in the presence of dust and self-contained breathing apparatus in the presence of vapours from the hot product.

6.2. Environmental precautions

Avoid discharge to sewers and public waterways. The product can be harmful to the aquatic environment with long-lasting effects.

6.3. Methods and material for containment and cleaning up

Solid spillages are collected with shovels or other means and placed into sealed plastic bags or drums for later recycling or managed as waste.

6.4. Reference to other sections

No additional reference

S7 HANDLING AND STORAGE

7.1. Precautions for safe handling

General precautions

- Do not smoke, eat or drink while handling the product.
- Use appropriate protective equipment to avoid direct contact or inhalation of the product and avoid generating dust.
- Eliminate all ignition sources in the material handling area: sparks, flames, static electricity or other sources of heat.

Specific conditions

- Avoid contact with the skin, eyes and clothing. Reseal containers containing unused product. Wash hands with a mild soap once work has finished.
- Handle the product in areas with efficient ventilation systems.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

- Store the product in cool, dry, well-ventilated areas.
- Store in locations equipped with firefighting equipment.

Incompatible materials

- Without significant incompatibilities. When the product is maintained during prolonged periods at temperatures above 30 °C, it agglomerates forming big-sized blocks.

7.3. Specific end use(s)

No additional information

S8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values

DNELs calculated for workers

NOAEL

Established PNEC values for substance

Particulates not otherwise classified (PNOC):

- Inhalable particulate: 10 mg/m³
 - Respirable particulate: 3 mg/m³
 - Chronic dermal: 12 mg/kg body weight/day
 - Chronic inhalation: 36 mg/m³
 - Chronic oral: 12 mg/kg body weight/day
- Value for which there is no adverse effect
- Freshwater: 0.056 mg/L
 - Sea water: 0.0056 mg/L
 - Sediments in freshwater: 4.57 mg/kg w.w.
 - Marine sediments: 0.457 mg/kg w.w.
 - Soil: 3.68 mg/kg w.w.
 - STP: 100 mg/L

8.2. Exposure controls

Appropriate technical controls

- Provide adequate ventilation and extraction systems in the workplace.
- Have eyewash systems and showers in the workplace.

Individual protection measures, such as personal protective equipment

Respiratory protection

- Breathing protection mask with P2 filter.

Skin protection

- Gloves (rubber, PVC). Long sleeve overall and appropriate footwear to avoid contact with skin.

Eye/face protection

- Approved safety goggles.

Other protective equipment

- Showers and eye-washers in the work area.

Hygiene measures in the workplace

- Shower with hot water and soap at the end of the day.
- Do not use solvents for cleaning the body. Both clothing and equipment should be changed frequently and dry cleaned.
- Check the condition of the gloves to avoid internal contamination and discard if signs of cuts or holes are detected.
- Use skin creams after work.

S9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Amber to brown pastilles

Odour

Characteristic

pH

Not applicable

Melting point/freezing point

48 °C

Initial boiling point and boiling range

It decomposes from 280 °C before boiling

Flash point

180 °C (Cleveland Open cup)

Evaporation rate

Not applicable

Flammability

Not readily flammable

Upper/lower limits of flammability/explosiveness

See Section 9.2

Vapour pressure

<4.8*10⁻⁴ Pa at 25°C

Vapour density

Not applicable

Relative density

1,042 gr/cm³

Solubility (es)

In water: 2.5 mg/l at pH 5 and 23°C; 3.2 mg/l at pH 9 and 23°C.

Soluble in most organic solvents

Partition coefficient n-octanol/water

Log Pow: range 1.2 – 7.7 with pH 6.3 and 25°C with average value of 5.8

Auto-ignition temperature

450-500 °C (for powder)

Decomposition temperature

280 °C

Viscosity

Not applicable

Oxidising properties

Not relevant

9.2. Other information

Explosive properties

- Explosion class: St2:
- Lower explosive limit: <10 g/m³
- Minimum Ignition Energy: 4 - 12 mJ

S10 STABILITY AND REACTIVITY

10.1. Reactivity

Stable product without reactivity issues informal conditions.

10.2. Chemical stability

The product is stable when stored at room temperature in the original container. Stable under normal conditions of use, handling and transport.

10.3 Possibility of hazardous reactions

They have not been described.

10.4. Conditions to avoid

Keep away from heat, sparks and flames.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Amine (aniline and derivatives) can be generated by thermal decomposition. In case of combustion, see section 5.

S11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity (ingestion)

Acute toxicity (dermal)

Ingestion

LD50: 3.190 mg/kg (rat)

LD50: >5.100 mg/kg (rabbit)

Even if the product is not toxic following ingestion, there might be malaise and/or adverse effects after ingesting relatively big product amounts. Oral chronic NOAEL for toxicity with repeated doses of 11,8 mg /kg of body weight per day in a 2-years research in rats.

The product is not skin irritating.

Non irritant.

The product is not skin irritating.

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitization

Mutagenicity
Carcinogenicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure

Other information of interest

No mutagenic in vitro and in vivo tests.

Negative in standard in vitro tests. No conclusive data for in vivo test.

No evidence of teratogenicity in animal studies using rats, mice and hamsters.

They have not been described

They have not been described

Product is not a skin sensitizer according to GPMT tests (Guinea pig maximization test) made according method OECD TG 406.

S12 ECOLOGICAL INFORMATION

12.1. Toxicity

Fish

- 96h-LC₅₀ (Lepomis macrochirus): 54 mg/l
- 96h-LC₅₀ (Oncorhynchus mykiss): 50 mg/l
- 96h-LC₅₀ (Pimephales promelas): 64 mg/l

Algae

- 96h-IC₅₀ (Selenastrum capricornutum): >1,000 mg/l

Invertebrates

- 48h-EC₅₀ (Daphnia magna): 96 mg/l

12.2. Persistence and degradability

Abiotic

- The product rapidly degrades by hydrolysis (50% in 17 h a pH 7 and 23°C) and Photolysis (degradation by photolysis of water: 50% in 3 minutes).

Biotic

- Product not biodegradable.

12.3. Bioaccumulative potential

Tests performed on the material state that the product has not bioaccumulation capability and it is not persistent. The product does not meet the criteria to be considered PBT or vPvB.

12.4. Mobility in soil

Adsorption factor log K_{oc}: >4.09

12.5. Results of PBT and vPvB assessment

The product does not meet the criteria to be considered PBT or vPvB.

12.6. Other adverse effects

Without additional data

S13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

For the product

- Recycle the product whenever possible. It is not possible to reuse, dissolve or mix the material with a combustible solvent and burn it in an incinerator with an adequate gas treatment system.
- In any case, avoid discharge into the environment in an uncontrolled manner.

Contaminated containers

- Manage as HW under the laws of the country concerned.

Handling

- Use properly sealed and labelled containers. Used containers should be handled so as not to generate dust during collection, transportation and final disposal.

General Provisions

- The establishments and companies engaged in the recovery, disposal, collection or transportation of waste should comply with European regulations on waste management or other local, regional or national regulations in force.

S14 TRANSPORT INFORMATION

14.1, 14.2, 14.3, 14.4 y 14.5

Land transport

- Not classified as dangerous goods.

Sea transport

- Not classified as dangerous goods.

Air transport

- Not classified as dangerous goods.

14.6. Transport in bulk in accordance with appendix II of the Marpol agreement 73/78 and the IBC code

Not applicable.

14.7. Special precautions for user

Avoid direct contact with the product and dispersing it in the environment.

S15 REGULATORY INFORMATION

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

Classification and labelling

- See Section 2 of this MSDS where the hazard and precautionary statements are given.

Regulation (EC) 1907/2006

- Registered N°: 01-2119486783-23-0000

Other regulations

- The product is listed in the following inventories: USA (TSCA), Canada (DSL), UE (EINECS), Japan (ENCS), Korea (ECL), Australia (AICS), New Zealand (NZ), Philippines (PICCS), China (CLECS).
- Product not affected by Seveso Dir.

15.2. Chemical safety assessment

Both the chemical safety reports as well as the guide for safe use are included in the registration dossier submitted to ECHA. Annex with exposition scenarios is included.

S16 Other information

Legislation applicable to the material safety data sheets

This SDS has been made in compliance with Reg. (EU) 2015/830 that modifies Annex II-Guide for the elaboration of Safety Data Sheets of Regulation (EC) 1907/2006 (REACH).

Text for the hazard statements (H phrases) referred to in section 2

H412: Harmful to aquatic life with long lasting effects.

Aclaration

The information given in this document has been compiled based on the best existing information sources, latest available knowledge and according to the current requirements on classification, packaging and labelling of hazardous substances. It does not imply the information is exhaustive or accurate in all cases. It is the user's responsibility to determine the validity of the information contained in this Material Safety Data Sheet to apply depend-

ing on the case.