1 SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND IDENTIFICATION BUSINESSES

1.1 Product identifier

CARBONISATE Purified - SYNCARBO 50-40N-P

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

Identified use(s): Liquid product after purification of the rubber granule pyrolysis product, The use is currently the subject of research and testing. It is used in emulsion paints and enamels. It is used in water-based acrylic and latex paints. It is also used in water-based varnishes..

Uses advised against: Other than those indicated above.

1.3 Details of the supplier of the safety data sheet

SYNTOIL S.A
19A/222 Powstańców Śląskich Street
53 - 329 Wroclaw
Telephone: +48604953195
e-mail: biuro@syntoil.pl
websites: www.syntoil.pl

1.4 Emergency telephone number

Emergency telephone number in Poland (open during office hours 07:00-15:00): +48604953195
112 (emergency telephone), 998 (fire brigade), 999 (ambulance service)

2 SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Hazards due to physical and chemical properties:

The mixture is not classified as hazardous in terms of physicochemical properties.

Health risks

The mixture is not classified as hazardous to health.

Environmental hazards:

The mixture poses no risk to the environment. Under normal conditions of use, no effects on the environment are known or anticipated.

2.2 Elements of signage

Pictogram

Not applicable.

Watchword:

A warning slogan is not used.

Hazard statement(s) (H)

Not applicable.

Precautionary statement(s) (P)

Not applicable.

Supplementary phrases indicating the type of danger

EUH208 contains[1,2-benzoisothiazolin-3-one]. May cause an allergic reaction.

2.3 Other risks

Substances in the product do not meet the criteria for PBT or vPvB in accordance with Annex XIII of the Regulation.

PBT substances (persistent, bioaccumulative and toxic)

vPvB substances (very persistent and very bioaccumulative)

REACH. The product does not contain substances on the list established in accordance with Article 59(1) for endocrine disrupting properties or substances identified as having endocrine disrupting properties in accordance with the

criteria set out in Commission Regulation Delegated Commission Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1 % by weight.

3 SEKCJA 3: SKŁAD / INFORMACJA O SKŁADNIKACH

3.1 **Substances:**

Not applicable

3.2 **Mixtures:**

The product.- purified carbonate contains 0.5 - 16 % mineral matter containing, inter alia: oxides of silicon, aluminium, zinc, calcium and sulphur.

Identification numbers	Chemical name	mass fraction in %	Classification according to Regulation (EC) No 1272/2008		
			Piktogram, kody haseł ostrzegawczych	Klasa zagrożenia i kody kategorii	Kody zwrotów wskazujących rodzaj zagrożenia
CAS: 68439-51-0 EC (EINECS): Polymer Index Number: Registration number of the relevant one: REACH Exemption: Polymer.	Alcohols C12-14, ethoxylated, propoxylated	<2	GHS07 Wng	Eye Irrit. 2 Skin Irrit. 2	H315 H319
CAS: 2634-33-5 EC (EINECS): 220-120-9 Index number: 613-088-00-6 Registration number of the relevant one: 01-2120761540-60-xxxx	1,2- benzoisothiazolin-3-one	<0.007	GHS09 GHS05 GHS07 Dgr	Acute Tox. 4 Skin Irrit. 2 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1 H400 (M=10) **specyficzne stężenia graniczne:** Skin Sens. 1 H317: C ≥ 0,05%	H302 H315 H317 H318 H400

[1] Contains a substance with a nationally defined occupational exposure limit value. See section 8
[2] Substance with an EU-level occupational exposure limit. See section 8.
[1] Applicable registration number: Substance exempted from registration under Article 2(7d) of REACH (recovered substance). Information required under Articles 31 or 32 of REACH relating to a substance that has been registered in accordance with Title II is available to the recoverer.

See section 16 of the Safety Data Sheet for the full wording of the H statements.

4 SECTION 4: FIRST AID MEASURES

4.1 **Description of first aid measures**

Inhalation: Remove to fresh air in case of irritation. Ensure access of fresh air. If deterioration occurs provide medical assistance.

Skin contact: Wash affected body parts with soap and warm water. Seek medical attention if adverse skin effects occur.

Eye contact: In case of eye contamination, rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses. Avoid strong jets of water due to the risk of mechanical damage to the cornea. If irritation persists, consult an ophthalmologist.

Ingestion: If a large quantity is swallowed, do not induce vomiting without consulting a doctor. Rinse mouth with plenty of water. Consult a doctor.

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

In contact with eyes: During processing: redness, tearing, burning, mechanical irritation or irritation due to exposure to vapours of the processed product.

After ingestion: Ingestion of a small amount should not pose a risk.

Skin contact: Mechanical irritation, temporary skin irritation. May cause an allergic reaction.

After inhalation: Not applicable.

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

The decision on treatment is made by the doctor after a thorough assessment of the injured person's condition.

5 SECTION 5: FIRE-FIGHTING MEASURES

5.1 **Extinguishing agents**

Suitable extinguishing media:

Extinguish a small fire with a snow extinguisher (CO_2) or powder extinguisher (ABC or BC), a large fire with foam or, as a last resort, with diffused water jets.

Unsuitable extinguishing media:

Compact water jet - danger of fire spreading.

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

Toxic combustion products may be formed during combustion, including carbon monoxide and other unidentified thermal decomposition products. Do not inhale combustion products, they can be hazardous to human health.

5.3 **Information for the fire brigade**

Use personal protective equipment appropriate to the fire. Follow normal fire prevention procedures. Wear appropriate chemical resistant protective clothing and self-contained breathing apparatus in the fire area. In case of fire, cool endangered containers with water. Do not allow to enter surface or ground water.

6 SECTION 6: ACCIDENT PREVENTION MEASURES RELEASES TO THE ENVIRONMENT

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

For non-assistance personnel:

Restrict unauthorised access to the affected area until appropriate clean-up operations have been completed. For large spills, isolate the affected area. Avoid direct contact with the releasing product. Avoid inhalation of vapours. Use personal protective equipment. Avoid contact with eyes and skin. Ensure adequate ventilation.

For those providing assistance:

Ensure that only trained personnel carry out the removal of the accident and its consequences. Use personal protective equipment.

6.2 **Environmental precautions**

In the event of a significant spillage, take appropriate measures to avoid spreading to the environment. Notify the responsible emergency services.

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

Secure sumps. If possible, collect (e.g. with an industrial hoover), avoiding raising dust. Place damaged packaging in replacement packaging. Flush contaminated surface with water.

6.4 **References to other**

Personal protective equipment in section 8. Dispose of as recommended in section 13.

7 SECTION 7: HANDLING AND USE OF SUBSTANCES AND MIXTURES STORAGE

7.1 **Precautions for safe handling**

Ensure adequate ventilation. Prevent from entering drains, surface and ground water and soil. Work according to safety and hygiene rules. Use personal protective equipment. Do not eat, drink or smoke when using. Wash hands during breaks and after finishing work.

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

Store on heaps, covered if possible due to the possibility of dusting and absorbing water from precipitation and increasing moisture content.

7.3 **Specific end use(s)**

See Section 1.2 SDS No information on other uses.

8 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters**

Not applicable

DNEL/PNEC

No data available

8.2 **Exposure controls**

8.2.1 Appropriate technical control measures

Local exhaust ventilation and general ventilation of the room are necessary during the production process.

8.2.2 Individual protection measures, such as personal protective equipment

When the concentration of the substance posing a risk is established and known, PPE should be selected taking into account the concentration of the substance present in the workplace, the length of exposure, the activities carried out by the worker and the recommendations given by the manufacturer of the PPE. In an emergency situation or when the concentration of the substance in the workplace is not known, use personal protective equipment that isolates the body (gas-tight suit combined with insulating respiratory protective equipment).

Industrial hygiene: General industrial hygiene regulations apply. Remove contaminated clothing after work. Wash hands and face before breaks in work. Do not eat, drink or smoke while working. Keep suitable fire extinguishing agents in close proximity to the work area if heat treatment or high temperature processes are required.

Hand and body protection

Use protective gloves against mechanical hazards and work boots and clothing. The resistance of the glove materials must be checked before use. The permeation time of the glove must be obtained from the glove manufacturer and such time must be observed. It is advisable to change gloves regularly and to replace them immediately if there are any signs of wear, damage (tears, perforations) or changes in appearance (colour, elasticity, shape).

Eye protection

Safety goggles recommended if there is a risk of eye contamination.

Respiratory protection

Not required if properly ventilated. If working in confined spaces and there is a risk of dust formation, wear a mask with a dust filter (type P). Ventilation should be installed wherever grinding or processing of the product takes place or any processes involving the generation of high temperatures (e.g. extrusion).

8.2.3 **Environmental exposure controls**

Protect against introduction into the municipal water and sewerage system and watercourses. Any emissions from ventilation systems and process equipment should be checked to determine their compliance with the requirements of environmental legislation.

9 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 **Information on basic physical and chemical properties**

State of matter:	Liquid
Colour:	Black
Odour:	Not specified
Boiling point and boiling range:	No data available

Flammability of materials :	Not a flammable mixture
Lower and upper explosion limits	No data available
Flash point:	>320°C
Auto-ignition temperature [gases, liquids]:	>900°C
Base:	Aqueous dispersion of high molecular weight technical carbon black
Physical form:	Water dispersion
Viscosity of Ford cup 4 mm:	200-200 s
Solids content	about 50%
Relative density	about 1200 kg/m^3
Particle [solid] characteristics:	grain size < 20 µm d 80

9.2 **Other information**

9.2.1 Information on physical risk classes

Explosive properties	Other safety properties

9.2.2 Other safety features

Ash content:	0.5-16%
Volatile matter content	>0.2%
Sulphur content	>0.2%
Humidity:	<74%

10 SECTION 10: STABILITY AND REACTIVITY

10.1 **Reactivity**

The product is chemically passive to all liquids except hydrofluoric acid.

10.2 **Chemical stability**

Under normal conditions of use and storage, the product is stable

10.3 **Possibility of hazardous reactions**

Heavily pulverised and dried carboniser dust can form explosive mixtures under specific conditions.

10.4 **Conditions to**

Avoid direct sunlight.

10.5 **Incompatible materials**

10.6 **Hazardous decomposition products**

Under standard conditions of use as intended, no hazardous decay products are formed.

11 SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity:

ATE $_{MIX}$ oral (mg/kg): > 2000 Based on available data, the classification criteria are not met.

ATE $_{MIX}$ dermal (mg/kg): > 2000 Based on available data, the classification criteria are not met.

ATE $_{MIX}$ inhalation (mg/l/4h): >20 Based on available data, the classification criteria are not met.

The acute toxicity of the mixture (ATEmix) has been calculated on the basis of the relevant conversion factor in Table 3.1.2 of Annex I of the CLP Regulation as amended .

Skin corrosion/irritation:

Based on available data, the classification criteria are not met

Serious eye damage/eye irritation:

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation

Carcinogenicity:

Based on available data, the classification criteria are not met

Mutagenic effects on germ cells:

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

Reproductive toxicity:

Based on available data, the classification criteria are not met

Toxic effects on target organs - single exposure:

Based on available data, the classification criteria are not met

Toxic effects on target organs - repeated exposure:

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

Aspiration hazard:

Based on available data, the classification criteria are not met

Information on likely routes of exposure

In contact with eyes:	During processing: redness, tearing, burning, mechanical irritation or irritation due to exposure to vapours of the processed product.
After ingestion:	Ingestion of a small amount should not pose a risk.
Skin contact:	Mechanical irritation, temporary skin irritation. May cause an allergic reaction.
After inhalation:	Not applicable

11.2 Information on other hazards

Endocrine disrupting properties:

The components of the mixture have no endocrine effects according to the assessment criteria of Regulations: (EC) No. 1907/2006, (EU) 2017/2100, (EU) 2018/605.

Other information:

They are not known

12 SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity of the mixture

The mixture poses no risk to the environment. Under normal conditions of use, no effects on the environment are known or expected.

To minimise long-term global pollution, consider:

- Reduce the use of disposable products and packaging.
- Participation in recycling activities.
- Do not allow the product to enter water, sewage or soil.

12.2 Persistence and degradability

No data available for the mixture.

12.3 Bioaccumulative potential

No data available for the mixture.

12.4 Mobility in soil

The product is not soluble in water therefore its mobility in soil is low. The mobility of the substance depends on its hydrophilic and hydrophobic properties and the abiotic and biotic conditions of the soil, including its structure, climatic conditions, season (in Poland, temperate variable climate) and soil organisms, mainly (bacteria, fungi, algae, invertebrates).

12.5 Results of PBT and vPvB assessment

Does not meet PBT and vPvB criteria.

12.6 Endocrine disrupting properties

The ingredients of the product are not included in the list established in accordance with Article 59(1) as having endocrine disrupting properties nor is an ingredient with endocrine disrupting properties according to the criteria set out in Regulation 2017/2100/EU or Regulation 2018/605/EU in a concentration equal to or greater than 0.1%.

12.7 Other adverse effects

The product is not classified as hazardous to the ozone layer. The possibility of other harmful effects of the individual components of the mixture on the environment (e.g. ability to disrupt the endocrine system, effect on increasing global warming) should be considered.

13 SECTION 13: WASTE TREATMENT

13.1 **Waste disposal methods**

Product recommendations: Dispose of in accordance with the applicable regulations. Do not dispose of with municipal waste. Store residue in original containers. Recycling recommended if possible.

Recommendations for used packaging: carry out recovery/recycling/disposal of packaging waste in accordance with current legislation. Only packaging that is completely empty may be recycled.

Determine the waste code at the point of generation.

Legal basis:

EU legislation

Directives of the European Parliament and of the Council: 2008/98/EC as amended, 94/62/EC as amended.

National legislation

Act of 14 December 2012 on waste (Journal of Laws 2023, item 1587, consolidated text).

Act of 13 June 2013 on packaging and packaging waste management (consolidated text Dz.U. 2024 item 927).

Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue **Dz.U. 2020 item 10.**

14 SECTION 14: TRANSPORT INFORMATION

14.1 **UN number or ID number**

The product is not subject to the regulations on the carriage of dangerous goods contained in ADR (road transport), RID (rail transport), IMG (sea transport), ICAO/IATA (air transport).

14.2 **UN proper shipping name**

Not applicable.

14.3 **Transport hazard class(es)**

Not applicable.

14.4 **Packing group**

Not applicable.

14.5 **Environmental risks**

The product does not pose a risk to the environment according to the criteria of the UN Model Regulations.

14.6 **Special precautions for users**

When transporting carboniser that has not been well cooled, there may be a risk of ignition during transport in an uncovered wooden rail car (car box) due to increased air movement.

14.7 **Maritime transport in bulk according to IMO instruments**

Not applicable.

15 SECTION 15: REGULATORY INFORMATION

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

Other provisions

1. **1907/2006/EC** Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and No 1488/94 as well as Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
2. **2020/878/EU** Commission Regulation of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals.
3. **REGULATION** (EC) **No 648/2004** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.
4. **94/62/EC** European Parliament and Council Directive of 20 December 1994 on packaging and **packaging** waste, as amended.

5. **Regulation (EC) No 850/2004** of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC (as amended by subsequent regulations).
6. **Regulation (EC) No 1013/2006** of the European Parliament and of the Council of 14 June 2006 on shipments of waste (Waste Shipment Regulation).
7. **Regulation (EU) No 649/2012** of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals (PIC Regulation).
8. **Regulation (EC) No 1223/2009** of the European Parliament and of the Council of 30 November 2009 on cosmetic products.
9. **Regulation (EC) No 1272/2008** on classification, labelling and packaging of substances and mixtures (CLP), taking into account the latest ATP (Adaptation to Technical Progress).
10. **Directive 2012/19/EU** of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE Directive).
11. **Regulation (EU) No 2019/1021** of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants (recast of Regulation (EC) No 850/2004).
12. **Regulation (EU) 2019/1148** of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors:
13. **Act of 13 April 2016** on the security of trade in explosives precursors (Journal of Laws 2016, item 669): Consolidated text **Dz.U. 2019 item 994**
14. **Act of** 25 February 2011 on chemical substances and their mixtures **Dz.U. 2011 No. 63 item 322 uniform text. Dz.U. 2022 item 1816.**
15. **Act of 13 June 2013** on packaging and packaging waste management (consolidated text OJ 2024, item 927).
16. Act of 14 December 2012 **on waste (Journal of Laws 2023, item 1587, consolidated text).**
17. **Regulation of the Minister of Economy of 5 November 2009** on detailed requirements for aerosol products (Journal of Laws 2009 No. 188, item 1460, as amended):
18. **Announcement by the Minister of Entrepreneurship and Technology of 15 April 2019 on** the announcement of the consolidated text of the Regulation of the Minister of Economy on detailed requirements for aerosol products (Journal of Laws 2019, item 975):
19. **Act** on the Transport of Dangerous Goods of 19 August 2011 (DZ.U. 227; item 1367) **Consolidated text Dz.U. 2022 item 2147.**
20. Government **Statement of** 13 March 2023 on the entry into force of the amendments to Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (**OJ 2023, item 891).**

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out by the supplier. A safety report is not required for the mixture.

16 SECTION 16: OTHER INFORMATION

Other data sources:

IUCLID Data Bank (European Commission - European Chemicals Bureau).
ESIS - European Chemical Substances Information System (European Chemicals Bureau).

Card issued by: Syntoil S.A.

The above information is based on currently available data characterising the product and the experience and knowledge of the manufacturer. The data contained in the Safety Data Sheet should only be regarded as an aid to safe handling during transport, distribution, use and storage. The Charter is not a certificate of product quality. The information contained in the Safety Data Sheet applies only to the title product and cannot be valid or sufficient for this product when used in combination with other materials or in various applications. The user of the product is obliged to comply with all applicable standards and regulations and bears liability arising from the misuse of the information contained in the Charter or the misuse of the product .

Classification and procedures used to classify the mixture according to Regulation (EC) 1272/2008 [CLP].
The classification of the mixture was carried out according to the calculation method, in accordance with the guidelines in Regulation (EC) 1272/2008 [CLP]. Based on the assessments and calculations carried out, the mixture was not classified as hazardous.

H-phrases (indicating danger) **used in section 2 and 3 of the Safety Data Sheet**

Explanation of abbreviations and acronyms

CEN	European Committee for Standardisation
C&L	Classification and labelling
CLP	Regulation on classification, labelling and packaging; Regulation (EC) No 1272/2008
CAS	Chemical Abstract Service Number
COM	European Commission
CMR	Carcinogen, mutagen or toxic for reproduction
CSA	Chemical safety assessment
CSR C	Chemical Safety Report
DMEL	Derived level causing minimal change
DNEL	Derived no-change level
DPD	Dangerous Preparations Directive 1999/45/EEC
DSD	Dangerous Substances Directive 67/548/EEC
EC	European Commission
$EC_{(50}$	Average effective concentration
ECB	Chemicals Bureau
ECHA	European Chemicals Agency
EC	EINECS and ELINCS number (see also EINECS and ELINCS)
EINECS	European list of existing substances of commercial interest
ELINCS	European List of Notified Chemicals
EN	European standard
EU	European Union
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
$IC_{(50}$	Concentration causing 50 per cent inhibition of a parameter
IUCLID	International Uniform Chemicals Database
IUPAC	International Union of Pure and Applied Chemistry
$LC_{(50}$	Average lethal concentration
LD_{50}	Average lethal dose
MSDS	Safety data sheet
PBT	Persistent, bioaccumulative and toxic substance
PEC	Predicted environmental concentrations
PNEC(s)	Predicted no-effect concentration in the environment
PPE	Personal protective equipment
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety data sheet
SIEF	Substance Information Exchange Forum
STOT	Toxic effects on target organs
(STOT) RE	Repeated exposure
(STOT) SE	Single exposure
SVHC	Substances of very high concern
vPvB	[Substances] very persistent and very bioaccumulative

UN number	Material identification number according to the ADR agreement.
ADR	International Convention on the Carriage of Dangerous Goods and Cargoes by Road
RID	Regulations for the International Carriage of Dangerous Goods by Rail).
IMGD	International Dangerous Goods Code.
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
MARPOL	International Convention for the Prevention of Pollution from Ships (MARPOL)
Ems	Emergency response procedures for ships carrying dangerous goods
NDS	Maximum workplace concentration limit (TLV-TWA) (OEL-TWA) (PEL-TWA)
NDSCh	Maximum transient concentration limit (TLV-STEL)
NDSP	Maximum Tolerable Concentration Limit (TLV-CL)

Training
Before handling the product, the user should be familiar with the health and safety rules regarding the handling of chemicals and, in particular, should have received the appropriate job training.

VERSION 3.0
Changes to Sections: 1-16