

PRODUCT SAFETY DATA SHEET

(According to regulation CE 1907/2006, 453/2010 y 1272/2008)

Product: RECOVERED CARBON BLACK
Review: 01
Data of review: 01/07/2020

SECTION 1.- IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND THE COMPANY

1.1 Product identification: **rCB (recovered CARBON BLACK)**
 Reference: Recovered Carbon black
Chemical name: Carbon black
Nº CAS: 1333-86-4
Nº EINECS: 215-609-9
Nº Index: n.a.
Nº Reg. REACH: n.a. (exempt from the registration provisions of Title II of the REACH Regulation and the provisions of Titles V and VI as substance, because it meets the criteria of Article 2.7.d of REACH)

1.2 Relevant identified uses of the substance or mixture and not advised uses:
Identified Uses: Additive for fertilizer; chemical laboratory product; pigment preparations and polymeric components.
Not advised Uses: for drinking water treatment.

1.3 Supplier details of the Safety Data Sheet:

Instituto de Carboquímica (CSIC)
 C/Miguel Luesma Castán 4
 50018 Zaragoza - Spain
 Phone: (+34) 976 73 39 77
 e-mail: ramon.murillo@csic.eso

1.4 Emergency contact telephone numbers:

Company: (+34) 976 73 39 77 (during work hours)
Toxicological Information Service (INTCF): (+34) 91 562 04 20 (24h /365 days)*

(* Information in Spanish, solely for the purpose of providing health response in emergencies)

SECTION 2.- IDENTIFICATION OF HAZARDS

2.1 Substance or mixture classification:

According to REGULATION CE 1272/2008 [CLP]:
 Carcinogenic cat.2: H351: Suspected of causing cancer
According to DIRECTIVES 67/548/CEE and 1999/45/CE [DSP y DPP]:
 Xn: Carc. cat.2: R40: Limited evidence of a carcinogenic effect.

2.2 Label details:

According to REGULATION CE 1272/2008 [CLP]:

Pictogram(s):



A Word of Caution: ATTENTION
 Hazard statements: H351: Suspected of causing cancer
 Precautionary statements: P201: Obtain special instructions before use.
 P260: Do not breathe dust.
 P281: Use personal protective equipment as required.
 P309+P310+P101: IN CASE OF exposure or un-wellness: Call a physician or POISON CONTROL CENTRE immediately. If medical advice is needed, have the package or label nearby.
 P391: Collect the spilled liquid
 P405: Store locked up.
 P501: Dispose of contents and/or its container in accordance to the legislation on hazardous waste

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Additional information. n.a.

Substances contributing to the classification: Carbon black

2.3 Other hazards:

The use of this substance as ultrafine particles <100 nm (nanoparticles) can cause side effects at concentrations lower than those indicated in this Data Sheet.

Not classified as PBT or vPvB, does not meet current EU criteria.

SECTION 3.- COMPOSITION COMPOSITION / COMPONENTS INFORMATION

3.1 Chemical Description:

Substance: Carbon black obtained with the valorization of NFU.

3.2 Hazardous components:

Substances involved in a higher percentage than the exemption limit and presenting a danger to health or the environment, and/or with a recognized exposure limit:

Identifiers	Ingredients	Classification according to Regulation. CE 1272/2008/ Dir. 67/548/CE (*)	% p/p
CAS: 1333-86-4 EINECS: 215-609-9 Index: n.a. REACH: n.a.	Carbon black	[Carc.cat.2: H351]** [Xn: R40]**	80-100

(*) See heading 16 for the complete text of sentences R and H not mentioned in heading 2
 []** Classification not established in Annex VI of Regulation CE 1272/2008 (CLP) but according to manufacturer/supplier

SECTION 4.- FIRST AID MEASURES

4.1 Description of first aid measures:

The updated information of the product composition has been forwarded to the Service of toxicological Information (National Toxicology Institute). IN CASE OF INTOXICATION CALL THE SERVICE OF TOXICOLOGICAL INFORMATION: Tel (24 hours) (+34) 91.562.04.20.

General recommendations: In cases of doubt, or when discomfort symptoms persist, request medical attention by showing the SDS of this product. Never administer anything orally to an unconscious person. In case of contact with the eyes and skin, treat the eyes first. NEVER LEAVE AN INTOXICATED PERSON ALONE. Consult a physician.

In case of de inhalation: Take the person out of the contaminated area and into the fresh air. Monitor breathing. If required, artificial respiration. Seek medical attention if discomfort persists.

In case of skin contact: Remove contaminated clothing. Wash skin with plenty of soap and water, without rubbing. Require medical assistance.

In case of contact with eyes: Wash eyes immediately and thoroughly, keeping the eyelids open, with water for at least 15 minutes. Be sure to remove any contact lenses. Seek immediate medical attention.

If swallowed: Rinse mouth. Seek immediate medical attention showing the SDS for this product.

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

The inhalation of this product can cause coughing and irritation of the airways. In contact with your eyes it can cause redness and strong tearing.

If repeated, prolonged exposure or at concentrations above the limits set by workplace exposure, can have adverse health effects depending on the route of exposure (see section 11.1).

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

Symptomatic treatment.

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SECTION 5.- FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable: Use preferably multipurpose powder extinguishers (ABC powder), alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Not suitable: NOT RECOMMENDED to use water jet.

5.2 Special hazards arising from the substance or mixture:

Finely dispersed particles form explosive mixtures with air.
Dust clouds can burn on contact with hot surfaces (above 500°C).
Burning may produce: Oxides of carbon and Silicon Oxides.

5.3 Recommendation for fire-fighters personnel:

Protective equipment for fire-fighters: waterproof boots, gloves and protective goggles. If fire occurs, wear self-contained breathing apparatus (more information on section 8).

Additional Information: Quickly isolate the area by removing all persons from the vicinity of the place of accident. Always stand with the back to the wind. Move containers far from fire if this can be done without danger. Cool with spray water the vessels located nearby heat or fire. Do not pour chemically contaminated water onto the soil, water or drains. Take the necessary measures to retain used water, for later disposal according to local regulations.

SECTION 6.- IN CASE OF ACCIDENTAL DISPERSION

6.1 Personal precautions, protective equipment and emergency procedures:

Given the potential exposure to the spilled material the use of personal protective equipment is required (see section 8). Evacuate the area. Do not touch or walk through spilled material. Keep away from sources of ignition. Avoid breathing dust. Ensure adequate ventilation.

6.2 Environmental precautions:

Prevent contamination of soil, drains or water courses. It should not be poured directly into drains, sewers or water courses, because of their toxicity to aquatic organisms. In case large spills of pure product occur, inform the responsible authorities.

6.3 Methods and materials for containment and cleaning up:

Stop leaks and prevent further spillage if the operation is not without risk. Sweep up spilled material, avoiding the formation of dust clouds, and place it in covered containers; if necessary, moisten the powder with some mineral oil to prevent its spread. Contain properly collected or absorbed in hermetically sealable containers, then remove to a safe place for recycling or disposal.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7.- HANDLING AND STORAGE

7.1 Precautions for safe handling:

General precautions:

Comply with current legislation on safety and health at work. Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. Avoid contact with eyes. Do not breathe dust. For exposure controls and personal protection measures, see section 8. Avoid free spills from the container. Keep clean and tidy where hazardous materials are handled.

Technical recommendations for the prevention of fires and explosions:

Product not flammable under normal conditions of storage, handling and use. Check section 10 about the conditions and materials to be avoided.

Technical recommendations to prevent ergonomic and toxicological risks:

For exposure control and personal protection measures, see section 8. Take off clothing and contaminated protective equipment before entering eating areas.

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Recommended techniques to prevent environmental hazards:

Because of its toxicity to aquatic organisms it is recommended to handle it within an area that has pollution control barriers if released, as well as having absorbent material nearby (see section 6.3).

7.2 Conditions for safe storage, including any incompatibilities:

Technical Measures for Storage:

ITC (R.D.379/2001): n.a.
 Classification: n.a.
 Min Temp: 0°C
 Max Temp: 35°C
 Max Time: >36 months

General Storage Conditions:

Store in a tightly closed and away from food and feed container. Store away from oxidizing agents.

7.3 Specific end uses:

Additives for fertilizers; chemical laboratory product; pigment preparations and polymeric components. Avoid contact with eyes. Do not breathe dust (see section 8).

SECTION 8.- EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters:

Exposure limit values (VLA) established for individual substances:

No. CAS	Component	Environmental Limit Value			Source /Year
		VLA-ED	VLA-EC	VLA-EC	
1333-86-4	Carbon black	VLA-ED	3.5 mg/m ³	-	INSHT / 2014
		VLA-EC	-	-	
		VLA-EC	-	-	

NOTES: - See UNE AT 481: Atmospheres at work place. Defining the fractions by the size of the particles for aerosol measurement.

- In Mining jobs see Order ITC 2585/2007, from the 30th of august (BOE nº 315 from the 7th of September 2007), approving the Complementary Technical Instruction 2.0.02 of the General Regulation on basic Mining Safety Norms
 (*) Reclassified in 2011, by the International Agency for Research on Cancer (IARC) from group 2A (probably carcinogenic to human) to group 1 (carcinogenic to human).

Biological limit value (VLB): not established for individual substances or isomers

DNEL Values (the no-effect threshold levels for human health) established for individual substances:

DNEL Values (Workers)		Short exposure		Long exposure	
Identification subst. individual	Exposure channel	Systemic	Local	Systemic	Local
		Carbon black (CAS: 1333-86-4; CE: 215-609-9)	Oral	n.d.	n.d.
Cutaneous	n.d.		n.d.	n.d.	n.d.
Inhalation	n.d.		n.d.	2 mg/m ³	2 mg/m ³

DNEL Values (consumers): n.d.

PNEC values (Predicted no effect concentration for aquatic organisms) of the components

Substance identification	Environment	PNEC Value	Environment	PNEC Value
Carbon black (CAS: 1333-86-4 ; CE: 215-609-9)	Treatment Plant	n.d.	Fresh water	5 mg/L
	Ground	n.d.	Salty water	5 mg/L
	Intermittent dumping	n.d.	Sediment (Fresh water)	n.d.
	Oral	n.d.	Sediment (Fresh water)	n.d.

8.2 Exposure Controls:

General safety and hygiene in the workplace:

Handle in accordance with good industrial hygiene and respect safety measures.

Wash hands, forearms and face thoroughly after handling chemical products chemical, before eating, smoking and using the lavatory and at the end of workday.

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Technical measures:

Provide adequate ventilation and effective local exhaust system if there is risk of dust generation.
 Provide eyewash bottle and safety shower in the workplace.

Individual protection measures:

A.- Respiratory protection: Handle in well ventilated areas. If necessary, it is recommended to use:

PRL Symbol	EPI	Marking	CEN Norms	Observations
	Self-filtering mask for gases, fumes and particles, with suitable filter		AT 149:2001+A1:2009 AT 405:2001+A1:2009 With filters: EN143:2001	Replaced when contaminant odour or flavour is detected inside the mask or face piece adapter

B.- Specific hand protection: Wear protective gloves.

PRL Symbol	EPI	Marking	CEN Norms	Observations
	Disposable chemical protective gloves such as latex or hypoallergenic		AT 374-1:2003 AT 374-3:2003/AC:2006 AT 420:2003+A1:2009	Time of exposure (Breakthrough Time) specified by the manufacturer must be greater than the time of use of the product. Use proper glove removal technique (without touching the outer surface of the gloves) to avoid skin contact with this product. Discard damaged or contaminated gloves after use in accordance with applicable laws

C.- Eye and Face Protection: Use in case of risk of splashing glasses or face shield

PRL Symbol	EPI	Marking	CEN Norms	Observations
	Panoramic splash goggles and/or face shield or projections		AT 166:2001 AT 172:1994/A1:2000 AT 172:1994/A2:2001 EN 165:2005	Clean daily and disinfect periodically according to manufacturer's instructions.

D.- Body Protection:

PRL Symbol	EPI	Marking	CEN Norms	Observations
	Protective clothing against chemical risks		AT 13034:2005+A1:2009 AT 168:2001 AT ISO 13982-1:2004/A1:2010 AT ISO 6529:2001 AT ISO 6530:2005	Exclusive use at work. Clean periodically according to the manufacturer's instructions.
	Antislipping work shoes		AT ISO 20345:2011 AT 13832-1:2006 AT ISO 20344:2011	Replace boots for any indication of impairment.

Complementary emergency measures:

Emergency measure	Norms	Emergency measure	Norms
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 eyewash	DIN 12 899 ISO 3864-1:2002

8.3 Environmental exposure controls:

Under Community legislation protecting the environment, due to their toxicity to aquatic organisms, do not pour the environment. For additional information see section 7.1

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SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state at 20°C:	Solid
Aspect:	Dust
Colour:	Black
Odour:	odourless
Odour threshold:	not applicable
pH (50 g/L a 120°C):	4.0 – 11.0
Melting Point/Temp/freezing:	3654 – 3697 °C
Boiling Point/Temp (at atm pres.):	4827 °C
Ignition Point/Temp:	not available
Flammability (solid/gas)	not available
Evaporation rate:	not available
Vapour pressure at 20°C:	not available
Vapour density at 20°C (air=1):	not available
Relative density at 20°C (water=1)	1.8 – 2.1 g/cm ³
Apparent density at 20°C:	0.3 – 0.8 g/L (product with a % humidity < 1%)
Solubility in water at 20°C:	completely insoluble
Liposolubility:	Soluble in most organic solvents
Dynamic viscosity at 20°C:	not applicable
Kinematic viscosity at 20°C:	not applicable
Decomposition temperature:	not available
Self-ignition temperature:	500°C
Flammability limits:	not available
Oxidising properties:	not available
Explosive properties:	not available
Partition coefficient n-octanol/water:	not available (see data of each ingredient in section 12)

9.2 Additional Information:

Surface tension at 20°C:	Not relevant*
Refractive index:	Not relevant*
<u>In application of RD 117/2003 (Dir. 1999/13/CE), this product has the following characteristics</u>	
C.O.V. (supply):	0% weight
Concentration C.O.V. at 20°C:	not applicable
Average number of carbons:	Not relevant*

(*) Not relevant due to the nature of the product, not providing information characteristic of its danger

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity:

It is a strong reducing agent and reacts violently with oxidants, chlorates and nitrates.

10.2 Chemical stability:

Chemically stable under the conditions indicated of storage, handling and use.

10.3 Possibility of hazardous reactions

A strong reducing agent and reacts violently with oxidants, chlorates and nitrates.

10.4 Conditions to avoid:

Dust clouds can burn on contact with hot surfaces (above 500 ° C). Do not heat above 290 ° C.

Impact and friction	Contact with air	Heating	Sunlight	Humidity
Caution	Not applicable	Risk of inflammation	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Strong oxidizing agents, chlorates, nitrates.

10.6 Hazardous decomposition:

Other hazardous decomposition products - no data available

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SECTION 11.- TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

If repeated exposure, prolonged or at concentrations above the limits set by workplace exposure, can have adverse health effects depending on the route of exposure

Eye Contact: May cause irritation and strong tearing.

Skin Contact: May cause skin irritation. May be harmful.

Ingestion: May cause coughing and abdominal cramps. May be harmful if swallowed.

Inhalation: May cause respiratory tract irritation. The substance can be absorbed by inhalation. Can quickly reach a harmful concentration of airborne particles when dispersed causing irritation of the mucous membranes of the respiratory tract. Lungs may be affected by repeated or prolonged exposure. The condition of individuals with lung disease (bronchitis, emphysema, chronic obstructive pulmonary disease) can be aggravated by exposure to the product. This substance is possibly carcinogenic to humans.

11.2 Specific toxicological data of substances::

Identification of the substance	Acute toxicity		Gender
Carbon black (CAS: 1333-86-4 ; CE: 215-609-9)	DL50 oral	> 15 400 mg/Kg	rat
	DL50 cutaneous	> 3 000 mg/Kg	rabbit
	CL50 Inhalation:	n.d.	-

11.3 Corrosion or irritation

Identification of the substance	Results		Gender
Carbon black (CAS: 1333-86-4 ; CE: 215-609-9)	Cutaneous	May cause mechanical irritation	rat
	Ocular	n.d.	-

11.4 Awareness:

The product is not classified as dangerous with sensitizing effects, not presenting substances classified as hazardous with sensitizing effects

11.5 Specific target organ toxicity (STOT):

Single exposure: No data available.

Repeated exposure: Lungs may be affected by repeated or prolonged exposure.

Aspiration Hazard: not available.

11.6 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Identification	Results		Gender
Carbon black (CAS: 1333-86-4; CE: 215-609-9)	Genotoxicity in vivo-inhalation	DNA Damage	mouse
	Carcinogenicity - inhalation	Tumorigenic: Carcinogenic by RTECS criteria Lungs, Thorax, or Respiration: Tumors Possibly carcinogenic. Limited evidence of carcinogenicity in animal studies. IARC: 2B - Group 2B: Possibly carcinogenic to humans (Carbon black)	rat

11.7 Additional Information

RTECS: Carbon black FF5800000

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SECTION 12.- ECOLOGICAL INFORMATION

The product contains substances classified as toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

12.1 Toxicity Data:

Identification of the substance	acute toxicity		species	Gender
Carbon black (CAS 1333-86-4)	CL50	1000 mg/L (96 h)	<i>Danio rerio</i>	Fish
	CE50	5600 mg/l (24 h)	<i>Daphnia magna</i>	crustacean
	CE50	> 10000 mg/l (72 h)	<i>Desmodesmus subspicatus</i>	Alga

12.2 Persistence and degradability:

No data available.

12.3 Bioaccumulation potential::

Sin datos disponibles. No data available.

12.4 Mobility:

No data available.

12.5 Results of PBT and vPvB assessment:

A substance that does not meet the PBT or vPvB criteria

12.6 Other adverse effects:

Not determined.

SECTION 13.- DISPOSAL CONSIDERATIONS

13.1 Methods for the treatment of waste::

Code	Description	Type of residue (Dir. 2008/98/CE)
06 13 03	Carbon black	Not dangerous

Product waste should be stored and labelled for subsequent revaluation or disposal of hazardous waste by authorized manager in accordance with current national / European regulations.

13.2 Disposal of residue packaging::

Contaminated empty containers must be handled and removed by licensed hazardous waste manager, always in accordance with current national / European regulations in this regard.

13.3 Legislative provisions relating to waste management:

Community legislation (Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3rd of May 2000) or state related to waste management (Law 22/2011 on waste and contaminated soils, Law 10/2000 wastes of Community of Valencia, Order MAM/304/2002 on recovery operations and waste disposal, and the European Waste List, Law 11/1997 on Packaging and packaging Waste).

SECTION 14.- INFORMATION RELATING TO TRANSPORTATION

Not classified as dangerous for transport. Not subject to ADR / RID / IMDG / IATA regulations

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SECTION 15.- REGULATORY INFORMATION

15.1 Regulations and safety, health and environmental legislation, legislation specific for the substance or mixture:

Composition communicated to the National Institute of Toxicology.

Restrictions on the marketing and use of certain dangerous substances and mixtures (Annex XVII of REACH):

Not applicable

Other EC regulations concerning dangerous chemicals / mixtures:

- Substances Candidate for release in Regulation (EC) 1907/2006 (REACH): Not applicable.
- Regulation (EC) 2037/2000 on substances that deplete the ozone layer: Not applicable
- Active substances which have not been included in Annex I or IA to Directive 98/8/EC: Not applicable.
- Regulation (EC) 689/2008 concerning the export and import of dangerous chemicals: Not applicable.

Special provisions for the protection of persons or the environment: It is recommended to use the information collected on this safety data sheet as input to a risk assessment of local circumstances to establish the necessary measures to prevent risks to the handling, use, storage and disposal of this product . Applicable Regulations:

- Royal Decree 1254/1999 Major Accidents (Seveso legislation): product classified as 9i. (Very toxic to aquatic organisms)
- Royal Decree 665/1997 on the protection of workers from risks related to exposure to carcinogens at work.
- Royal Decree 379/2001 amending Regulation storage of chemicals and their complementary technical instructions

15.2 Chemical Safety Assessment:

Not yet been realized.

SECTION 16.- OTHER INFORMATION

Information on dosage and application: see label and product data sheet.

Full text of legislative phrases specified in section 3 not listed in section 2:

Directive 67/548/CE (DSP) and Directive 1999/45/CE (DPP): n.a.

Regulation nº 1272/2008 (CLP): n.a.

Abbreviations used not specified in sections 1 to 16:

<: less than; ≤ less than or equal to; >: Greater than; ≥: greater than or equal to

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

EINECS: European Inventory of Existing Commercial Substances.

REACH: Registry, Evaluation and Authorization of Chemicals

NIOSH: National Institute for Occupational Safety and Health (US CDC).

CEN: Comité Européen de Normalisation (European Committee for Standardization).

IARC: International Agency for Research on Cancer (World Health Organization).

RTECS: Registry of Toxic Effects of Chemical Substances.

PBT: Persistent, Bioaccumulative and Toxic

mPmB: very persistent and very bioaccumulative.

VLA-ED: Occupational Limit Value - **Daily Exposure**

VLA-EC: Occupational Limit Value - Short Time **Exposure**

INSHT: National Institute of Safety and Health at Work

CEN: Comité Européen de Normalisation (European Committee for Standardization).

CL50: 50% lethal concentration.

DL50 : Lethal Dose at 50% ..

CE50: Effective concentration at 50%

STOT SE: specific target **organ toxicity** (STOT), Single exposure (SE)

STOT RE: specific target **organ toxicity** (STOT), repeated exposure (RE)

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BCF : Bioconcentration factor

Log POW: partition-coefficient octanol / water

ITC: Complementary Technical Instructions for the storage of hazardous materials

SEVESO: Common name of the Regulations on the control of the risks inherent in major-accident hazards involving dangerous substances.

n.a.: not applicable.

n.d.: not available

Advice on training:

Minimal training is recommended in the prevention of occupational hazards to personnel that will handle this product in order to facilitate the understanding and interpretation of this safety data sheet and product labelling.

Main data sources:

<http://ecb.jrc.ec.europa.eu/esis>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

IARC Monographs on the evaluation of carcinogenic risks to humans, Volume 68, "Silica, Some Silicates ..." (1997)

The information provided in this Safety Data Sheet has been drafted in accordance with Annex II of the EC 1907/2006 concerning the REACH Regulation as amended by Regulation 453/2010, and the RD 255/2003 (Directives 1999/45/EC, 2001/58/EC and 2001/60/EC) amending the Regulation on classification, packaging and labelling of dangerous preparations and subsequent modification (Order PRE / approved 164/2007), as well as with the EC 1272/2008 (CLP) Regulation on classification, labelling and packaging of dangerous substances and mixtures, which technical appendix has been updated by Regulation 790/2009 (1st ATP of the CLP Regulation, which includes the 30th and 31st ATP of Directive 67/548/EEC).

The information in this Safety Data Sheet is based on the properties of the components measured in our laboratory. The Safety Data Sheet is intended to provide information concerning the health and safety assessment of the conditions under which this product is transported, stored and used at work. The supplier company is not liable for any damage resulting from handling or use for which the product is intended because the working conditions of the users are beyond our knowledge and control. This document is not intended to provide assurance of quality.