

Version: 3.7	Revision Date: 06.01.2025	Print Date: 07.01.2025
SECTION 1: Identification of the	substance/mixture and of the co	ompany/undertaking
1.1 Product identifier		
Trade name :	G084-B21 hebro®protect 70	
1.2 Relevant identified uses of the s	substance or mixture and uses advi	sed against
	Corrosion inhibitor	J
1.3 Details of the supplier of the sat	fety data sheet	
Company	 hebro chemie- ZN der Rockt GmbH Rostocker Str. 40 41199 Mönchengladbach 	wood Specialties Group
Contact person	: Zentrale hebro chemie	
Telephone	: +49 (0) 2166 6009-0	
Telefax	: +49 (0) 2166 6009-99	
Contact person product safety	Abteilung Produktsicherheit	
Telephone	: +49(0)2166 6009-311	
E-mail address	: msds.de@hebro-chemie.de	
1.4 Emergency telephone number		
	: Giftinformationszentrum Erfu +49 (0) 361 730 730	urt:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 127/2008)Flammable liquids, Category 3H226: Flammable liquid and vapour.Specific target organ toxicity - single exposure, Category 3, Central nervous systemH336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

2

Hazard pictograms



Signal word

: Warning



Version: 3.7		Revision Da	ite: 06.01.2025	Print Date: 07.01.2025
Hazard statements	:		Flammable liquid and vapo May cause drowsiness or	
Precautionary statements	:	Prevention:		
			Keep away from heat, hot flames and other ignition s	
			Avoid breathing mist or va	5
		Response:		
		;	+ P353 IF ON SKIN (or ately all contaminated clot water.	
		;	+ P312 IF INHALED: R air and keep comfortable f POISON CENTER/ doctor	or breathing. Call a
		P370 + P378		sand, dry chemical or
		Storage:		
		P403 + P233	Store in a well-ventilate tightly closed.	ed place. Keep container

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Additional Labelling

EUH208 Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Toxicological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Preparation containing mineral oil with specific components.

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Hydrocarbons, C9-C11, n-	Not Assigned	Flam. Liq. 3; H226	>= 50 - < 65
alkanes, isoalkanes, cyclics, < 2%	919-857-5	Asp. Tox. 1; H304	



		ate: 07.01.2025	
01-2119463258-33	STOT SE 3; H336		
4- Not Assigned	Skin Sens. 1B; H317	>= 1 - < 2.5	
01-2119978241-36	specific concentration limit Skin Sens. 1B; H317 > 10 - 100 %		
-	14- Not Assigned	14-Not AssignedSkin Sens. 1B; H31701-2119978241-36specific concentrationlimitSkin Sens. 1B; H317	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	Provide fresh air. Keep patient warm and at rest.
In case of skin contact	:	Take off all contaminated clothing immediately. After contact with skin, wash immediately with plenty of soap and water.
In case of eye contact	:	In case of eye contact, remove contact lens and rinse imme- diately with plenty of water, also under the eyelids, for at least 15 minutes.
If swallowed	:	Do NOT induce vomiting. Keep at rest. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry powder Water spray jet
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-	:	Hazardous decomposition products formed under fire condi-
fighting		tions.
		Carbon monoxide



Version: 3.7		Revision Date: 06.01.2025	Print Date: 07.01.2025
		Nitrogen oxides (NOx) Carbon dioxide (CO2)	
5.3 Advice for firefighters			
Special protective equipment for firefighters	:	Wear self-contained breathing apparates essary.	tus for firefighting if nec-
Specific extinguishing meth- ods	:	Use water spray to cool unopened cor Suppress (knock down) gases/vapour spray jet.	
Further information	:	Fire residues and contaminated fire ex be disposed of in accordance with loca	0 0

SECTION 6: Accidental release measures

• • • •	ve equipment and emergency procedures Ensure adequate ventilation. Do not breathe vapours, aerosols.
6.2 Environmental precautions	
Environmental precautions	Inform the relevant authorities if it enters sewers, aquatic envi- ronment or soil.
6.3 Methods and material for cont	ainment and cleaning up
Methods for cleaning up	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. For personal protection see section 8.
Advice on protection against fire and explosion	:	Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Follow the water regulations. Keep only in the original con-
areas and containers		tainer in a cool, well-ventilated place. Containers which are
		opened must be carefully resealed and kept upright to prevent



Version: 3.7		Revision Date: 06.01.2025	Print Date: 07.01.2025
		leakage.	
Further information on stor- age conditions	:	Keep only in the original container in a place. Keep away from heat. Keep away tion - No smoking. Keep at temperatur 35°C.	ay from sources of igni-
Advice on common storage	:	Incompatible with oxidizing agents.	
7.3 Specific end use(s) Specific use(s)	:	Corrosion inhibitor	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Hydrocarbons, C9- C11, n-alkanes, isoal- kanes, cyclics, < 2% aromatics	Workers	Inhalation	Long-term systemic effects	871 mg/m3
	Workers	Skin contact	Long-term systemic effects	208 mg/kg bw/day

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye/face protection	:	Safety glasses with side-shields conforming to EN166
Hand protection Material Break through time Protective index	:	Protective gloves complying with EN 374. > 60 min Class 3
Material Glove thickness	-	Nitrile rubber 0.4 mm
Material Glove thickness		butyl-rubber 0.5 mm
Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.



Version: 3.7		Revision Date: 06.01.2025	Print Date: 07.01.2025
Skin and body protection	:	Chemical resistant protective clothing 13034 (Type 6) Work uniform or laboratory coat.	according to DIN EN
Respiratory protection	:	If product forms vapours or aerosols w tion.	ear breathing protec-
Filter type	:	Combined acidic gas/vapour, ammonia vapour type (AEK)	a/amines and organic
Protective measures	:	Follow the skin protection plan.	
Environmental exposure cor	ntro	bls	
Water	: Do not let product enter drains.		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	brown
Odour	:	characteristic
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	130 °C
Upper explosion limit / Upper flammability limit	:	Upper flammability limit 7.0 %(V)
Lower explosion limit / Lower flammability limit	:	Lower flammability limit 0.6 %(V)
Flash point	:	37 °C
Auto-ignition temperature	:	200 °C
рН	:	Not applicable
Viscosity Viscosity, kinematic	:	ca. 40 mm²/s (40 °C)



Version: 3.7		Revision Date: 06.01.2025	Print Date: 07.01.2025
Solubility(ies) Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	not determined	
Vapour pressure	:	2.5 hPa (20 °C) Information taken from reference wor	ks and the literature.
Density	:	0.86 g/cm³ (20 °C) Method: DIN 51757	
Relative vapour density	:	not determined	
9.2 Other information			
Explosives	:	Vapours may form explosive mixture	with air.
Flammability (liquids)	:	Combustible liquids	
Substances and mixtures, which in contact with water, emit flammable gases	:	In use, may form flammable/explosive	e vapour-air mixture.

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous rea	actic	ons
Hazardous reactions	:	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid Conditions to avoid	:	Product is stable under appropriate usage.
10.5 Incompatible materials		
Materials to avoid	:	Oxidizing agents

10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.



rsion: 3.7	Revision Date: 06.01.20	025 Print Date: 07.01.202
CTION 11: Toxicological	nformation	
1 Information on hazard clas	ses as defined in Regulatio	on (EC) No 1272/2008
Acute toxicity Not classified due to lack of	lata.	
Components:		
Hydrocarbons, C9-C11, n-a	Ikanes, isoalkanes, cyclics,	, < 2% aromatics:
Acute oral toxicity	: LD50 (Rat): > 5,000 mg Method: OECD Test Gu	
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 Method: OECD Test Gu	
Benzenesulfonic acid, di-C	10-14-alkyl derivs., calcium	salts:
Acute oral toxicity	: LD50 (Rat): > 5,000 mg	ı/kg
Acute inhalation toxicity	: LC50 (Rat): 1.9 mg/l Exposure time: 4 h Test atmosphere: dust/r	mist
Acute dermal toxicity	: LD50 (Rabbit): > 5,000	mg/kg
Skin corrosion/irritation Not classified due to lack of	lata.	
Serious eye damage/eye ir Not classified due to lack of		
Respiratory or skin sensiti	sation	
Skin sensitisation Not classified due to lack of	lata.	
Respiratory sensitisation Not classified due to lack of	lata.	
<u>Product:</u> Result	: May cause an allergic s	kin reaction.
Germ cell mutagenicity Not classified due to lack of	lata.	
Carcinogenicity Based on available data, the	classification criteria are not r	met.
<u>Product:</u> Carcinogenicity - Assess- ment	: Not classifiable as a hur	man carcinogen.

Not classified due to lack of data.



Version: 3.7	Revision Date: 06.01.2025	Print Date: 07.01.2025
 STOT - single exposure May cause drowsiness or dizzine STOT - repeated exposure Not classified due to lack of data. Aspiration toxicity Not classified due to lack of data. 11.2 Information on other hazards 		
11.2 Information on other hazards		
Endocrine disrupting propertie	S	
Product: Assessment :	This substance/mixture does not conta ered to have endocrine disrupting prop according to UK REACH Article 57(f),	•
Further information		
Product:		
Remarks :	According to many years of experience harmful effects when handled properly Description of possible hazardous to he on experience and/or toxicological cha components.	ealth effects is based

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics:</th>Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): >Exposure time: 96 h

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 96 h Test Type: Limit Test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h Test Type: Limit Test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	IC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l Exposure time: 72 h
		NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss	(rainbow trout)): >	100 mg/l
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Version: 3.7		Revision Date: 06.01.2025 Print Date: 07.01.2025
		Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50 (Bacteria): > 10,000 mg/l
12.2 Persistence and degradabil	ity	
<u>Product:</u> Biodegradability	:	Remarks: No data available
12.3 Bioaccumulative potential		
Product: Bioaccumulation	:	Remarks: No data available
Components:		
Hydrocarbons, C9-C11, n-al Partition coefficient: n- octanol/water		nes, isoalkanes, cyclics, < 2% aromatics: log Pow: 5 - 6.7
12.4 Mobility in soil		
<u>Product:</u> Mobility	:	Remarks: No data available
12.5 Results of PBT and vPvB as	sse	ssment
Product:		
Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting prope	ertie	es
Product:		
Assessment	:	This substance/mixture does not contain components consid- ered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).



Version: 3.7		Revision Date: 06.01.2025	Print Date: 07.01.2025
12.7 Other adverse effects			
Product: Additional ecological infor- mation	:	Do not flush into surface water or Avoid subsoil penetration.	sanitary sewer system.
SECTION 13: Disposal consid	der	ations	
13.1 Waste treatment methods Contaminated packaging	:	Dispose of in accordance with loca	al regulations.
Waste Code	:	Waste codes should be assigned	5

discussion with the waste disposal authorities.

risks

SECTION 14: Transport information

14.1	UN number or ID number					
	ADR	:	UN 1993			
	RID	:	UN 1993			
	IMDG	:	UN 1993			
	ΙΑΤΑ	:	UN 1993			
14.2	2 UN proper shipping name					
	ADR	:	FLAMMABLE LIQUID (Hydrocarbons, C9-C			
	RID	:	FLAMMABLE LIQUID (Hydrocarbons, C9-C			
	IMDG	:	FLAMMABLE LIQUID (Hydrocarbons, C9-C			
	ΙΑΤΑ	:	Flammable liquid, n.o (Hydrocarbons, C9-C			
14.3	14.3 Transport hazard class(es)					
			Class	Subsidiary		
	ADR	:	3			
	RID	:	3			
	IMDG	:	3			
	ΙΑΤΑ	:	3			
14.4	Packing group					
	ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	:	III F1 30 3 (D/E)			

14.1 UN number or ID number



Version: 3.7		Revision Date: 06.01.2025	Print Date: 07.01.2025
Remarks	:	Special Provision 640E	
RID Packing group Classification Code Hazard Identification Number Labels Remarks		III F1 30 3 Special Provision 640E	
IMDG Packing group Labels EmS Code Remarks	: : :	III 3 F-E, <u>S-E</u> "IMDG-Code segregation group not ap	oplicable".
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	:	366 Y344 III Flammable Liquids	
IATA_P (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	:	355 Y344 III Flammable Liquids	
14.5 Environmental hazards	4.5 Environmental hazards		
ADR Environmentally hazardous	:	no	
RID Environmentally hazardous	:	no	
IMDG Marine pollutant	:	no	

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law



Version: 3.7	Revision Date: 06.01.202	5 Print Date: 07.01.2025
UK REACH List of restrictions (A	nnex 17) :	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
UK REACH Candidate list of sub concern (SVHC) for Authorisation		Not applicable
The Persistent Organic Pollutant Regulation (EU) 2019/1021 as a ain)	3	Not applicable
Regulation (EC) on substances t layer	hat deplete the ozone :	Not applicable
UK REACH List of substances set (Annex XIV)	ubject to authorisation :	Not applicable
GB Export and import of hazardo Informed Consent (PIC) Regulat		Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H226 H304 H317 H336	:	Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. May cause drowsiness or dizziness.		
Full text of other abbreviations				
Asp. Tox.	:	Aspiration hazard		
Flam. Liq.	:	Flammable liquids		
Skin Sens.	:	Skin sensitisation		
STOT SE	:	Specific target organ toxicity - single exposure		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popula-



Version: 3.7

Revision Date: 06.01.2025

Print Date: 07.01.2025

tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information	and experience and a garding the product p delivery of this safety the product from his	The information provided is based on our current knowledge and experience and apply to the product as delivered. Re- garding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.		
	directives or respecti Regional or national ment all hazard class Guideline on the Res Substances in Electri no component is liste No PFAS are conscio	The product is classified and labelled in accordance with EC directives or respective national laws. Regional or national implementations of GHS may not implement all hazard classes and categories. Guideline on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) : no component is listed No PFAS are consciously added to the product concerning the restriction proposal for inclusion to REACh (Annex XVII).		
Classification of the mixtur	re:	Classification procedure:		
Flam. Liq. 3	H226	Based on product data or assessment		
STOT SE 3	H336	Calculation method		

GB / EN