according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

 Version
 Revision Date:
 SDS Number:
 Print Date:
 20.05.2022

 2.1
 22.09.2021
 102000029891
 Date of first issue: 06.08.2018

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

1.1 Product identifier

Trade name : HYDRO PELLET 1700

Product code : 024075HV0

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

Use of the : Colouring agents, pigments

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH

Guentersthal 4 91235 Hartenstein

Telephone : +499152770

Telefax : +499152777008

E-mail address of person

responsible for the SDS

: msds.eckart@altana.com

1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)

Call and response in your language is possible.

Contract no.: ECKART29003-NCEC.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, H412: Harmful to aquatic life with long lasting

Category 3 effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting

effects.

Precautionary statements : Prevention:

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

 Version
 Revision Date:
 SDS Number:
 Print Date:
 20.05.2022

 2.1
 22.09.2021
 102000029891
 Date of first issue: 06.08.2018

2.3 Other hazards

Combustible Solids

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	REGULATION (EC)	(% w/w)
	Index-No.	No 1272/2008	
	Registration number		
aluminium powder (stabilised)	7429-90-5	Flam. Sol. 1; H228	>= 50 - <= 100
	231-072-3		
	013-002-00-1		
	01-2119529243-45		
Phosphoric acid, C11-14-isoalkyl	154518-38-4	Skin Irrit. 2; H315	>= 3 - < 10
esters, C13-rich	(52933-07-0)	Eye Dam. 1; H318	
		Aquatic Chronic 2;	
	01-2119976356-25	H411	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move the victim to fresh air.

No hazards which require special first aid measures.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water.

If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

 Version
 Revision Date:
 SDS Number:
 Print Date:
 20.05.2022

 2.1
 22.09.2021
 102000029891
 Date of first issue: 06.08.2018

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry sand

Special powder against metal fire

Unsuitable extinguishing

media

ABC powder

Carbon dioxide (CO2)

Water Foam

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Contact with water liberates extremely flammable gas

(hydrogen).

Do not allow run-off from fire fighting to enter drains or water

courses.

5.3 Advice for firefighters

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Evacuate personnel to safe areas. Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

Version Revision Date: SDS Number: Print Date: 20.05.2022 102000029891 2.1 22.09.2021 Date of first issue: 06.08.2018

6.2 Environmental precautions

Prevent product from entering drains. **Environmental precautions**

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Use mechanical handling equipment.

Do not use a vacuum cleaner.

Do not flush with water.

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Avoid dust formation.

Routine housekeeping should be instituted to ensure that

dusts do not accumulate on surfaces.

Store away from heat.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Avoid dust formation. Provide appropriate exhaust ventilation

at places where dust is formed.

Hygiene measures When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the

technological safety standards.

Further information on

storage conditions

Protect from humidity and water.

Advice on common storage Do not store together with oxidizing and self-igniting products.

Never allow product to get in contact with water during

storage.

Keep away from oxidizing agents, strongly alkaline and

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

 Version
 Revision Date:
 SDS Number:
 Print Date:
 20.05.2022

 2.1
 22.09.2021
 102000029891
 Date of first issue: 06.08.2018

strongly acid materials in order to avoid exothermic reactions.

Further information on storage stability

: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
aluminium powder (stabilised)	7429-90-5	TWA (Inhalable)	10 mg/m3	GB EH40
Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
		TWA (Respirable fraction)	4 mg/m3	GB EH40
Further information	any kind whomg.m-3 8-hodust. This mexposed to a specific WEI limits., When	en present at a conc our TWA of inhalable leans that any dust v dust above these lev Ls and exposure to t re no specific short-ting-term exposure lim		eater than 10 VA of respirable eople are assigned ppropriate a figure three
		TWA (inhalable dust)	10 mg/m3	GB EH40
Further information	those fraction undertaken in General ment thoracic and hazardous to concentration inhalable durany dust will these levels to these must contain partifate of any pand the body	oses of these limits, ons of airborne dust value of airborne dust of a mair equal to or go st or 4 mg.m-3 8-hood be subject to COSH. Some dusts have best comply with the articles of a wide range particular particle after y response that it elicitical of airborne dusts it elicitical of airborne dusts article after y response that it elicitical of airborne dusts have best comply with the articles of a wide range of a	respirable dust and inhalable which will be collected when the methods described in MD and gravimetric analysis or responding to the COSHH definition of a set of any kind when present a reater than 10 mg.m-3 8-hour TWA of respirable dust. The HH if people are exposed to deen assigned specific WELs peropriate limits., Most industriated of sizes. The behaviour, dependent on the nature are size fractions for limit-setting	sampling is HS14/4 spirable, substance at a ur TWA of nis means that dust above and exposure trial dusts position and ratory system, and size of the

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

 Version
 Revision Date:
 SDS Number:
 Print Date:
 20.05.2022

 2.1
 22.09.2021
 102000029891
 Date of first issue: 06.08.2018

	termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
		TWA (Respirable dust)	4 mg/m3	GB EH40
Further information				

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

Substance name	End Use	Exposure routes	Potential health effects	Value
aluminium powder (stabilised)	Workers	Inhalation	Long-term local effects	3.72 mg/m3
	Consumers	Oral	Long-term systemic effects	3.95 mg/kg
	Workers	Inhalation	Long-term systemic effects	3.72 mg/m3
Phosphoric acid, C11- 14-isoalkyl esters, C13-rich	Workers	Inhalation	Long-term systemic effects	34.94 mg/m3
	Workers	Skin contact	Long-term systemic effects	100.13 mg/kg
	Consumers	Inhalation	Long-term systemic effects	10.43 mg/m3

6 / 15

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

 Version
 Revision Date:
 SDS Number:
 Print Date:
 20.05.2022

 2.1
 22.09.2021
 102000029891
 Date of first issue: 06.08.2018

	Consumers	Skin contact	Long-term systemic effects	60.08 mg/kg
	Consumers	Ingestion	Long-term systemic effects	6.01 mg/kg
2,2',2"-nitrilotriethanol	Workers	Inhalation	Long-term local effects	5 mg/m3
	Workers	Skin contact	Long-term systemic effects	6.3 mg/kg
	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Consumers	Inhalation	Long-term local effects	1.25 mg/m3
	Consumers	Ingestion	Long-term systemic effects	13 mg/kg
	Consumers	Skin contact	Long-term systemic effects	3.1 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.25 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l
Phosphoric acid, C11-14-isoalkyl esters, C13-rich	Fresh water	6.31 µg/l
	Fresh water sediment	0.113 mg/kg
	Sporadic Release	63.1 µg/l
	Marine water	0.631 µg/l
	Marine sediment	0.0113 mg/kg
	STP	10 mg/l
	Soil	0.0188 mg/kg
2,2',2"-nitrilotriethanol	Soil	0.151 mg/kg
	Fresh water	0.32 mg/l
	Fresh water sediment	1.7 mg/kg
	clarification plant	10 mg/l
	Marine water	0.032 mg/l
	Marine sediment	0.17 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. 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

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

 Version
 Revision Date:
 SDS Number:
 Print Date:
 20.05.2022

 2.1
 22.09.2021
 102000029891
 Date of first issue: 06.08.2018

be observed.

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Skin and body protection : Long sleeved clothing

Dust impervious protective suit

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use suitable breathing protection if workplace concentration

requires.

Breathing apparatus with filter.

P1 filter

Environmental exposure controls

Water : The product should not be allowed to enter drains, water

courses or the soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : pellets

Colour : silver

Odour : characteristic

Odour Threshold : No data available

pH : substance/mixture is non-soluble (in water)

Freezing point : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Combustible Solids

Self-ignition : No data available

Auto-ignition temperature : No data available

Smoldering temperature : No data available

Decomposition temperature : No data available

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

 Version
 Revision Date:
 SDS Number:
 Print Date:
 20.05.2022

 2.1
 22.09.2021
 102000029891
 Date of first issue: 06.08.2018

Explosive properties : No data available

Oxidizing properties : No data available

Upper explosion limit / Upper

flammability limit

: No data available

Lower explosion limit / Lower

flammability limit

: No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Bulk density : No data available

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Decomposition temperature : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Flow time : No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

Version Revision Date: SDS Number: Print Date: 20.05.2022

2.1 22.09.2021 102000029891 Date of first issue: 06.08.2018

Stable under recommended storage conditions.

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : Acids

Bases

Oxidizing agents

Water

10.6 Hazardous decomposition products

Contact with water or humid : This information is not available.

air

Thermal decomposition : This information is not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Components:

aluminium powder (stabilised):

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

Phosphoric acid, C11-14-isoalkyl esters, C13-rich:

Result: Skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

Version Revision Date: SDS Number: Print Date: 20.05.2022

2.1 22.09.2021 102000029891 Date of first issue: 06.08.2018

Product:

Assessment: No eye irritation

Remarks: Product dust may be irritating to eyes, skin and respiratory system.

Components:

Phosphoric acid, C11-14-isoalkyl esters, C13-rich:

Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Phosphoric acid, C11-14-isoalkyl esters, C13-rich:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l

Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 6.31 mg/l

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

 Version
 Revision Date:
 SDS Number:
 Print Date:
 20.05.2022

 2.1
 22.09.2021
 102000029891
 Date of first issue: 06.08.2018

aquatic invertebrates Exposure time: 48 h

Toxicity to algae : EC50 (algae): 150 mg/l

Exposure time: 72 h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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 Other adverse effects

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

European Waste Catalogue : 12 01 04 - non-ferrous metal dust and particles

European Waste Catalogue : 10 03 21 - other particulates and dust (including ball-mill dust)

containing hazardous substances

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company. In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

In accordance with local and national regulations.

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

Version Revision Date: SDS Number: Print Date: 20.05.2022

2.1 22.09.2021 102000029891 Date of first issue: 06.08.2018

SECTION 14: Transport information

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport

regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

: Not applicable

Regulation (EU) 2019/1021 on persistent organic

pollutants (recast)

Not applicable

UK REACH List of substances subject to authorisation

(Annex XIV)

Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

Conditions of restriction for the following entries should be

considered:

aluminium powder (stabilised)

(Number on list 40)

Phosphoric acid, C11-14-isoalkyl esters, C13-rich (Number on list 3)

15.2 Chemical safety assessment

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

 Version
 Revision Date:
 SDS Number:
 Print Date:
 20.05.2022

 2.1
 22.09.2021
 102000029891
 Date of first issue: 06.08.2018

SECTION 16: Other information

Full text of H-Statements

H228 : Flammable solid. H315 : Causes skin irritation.

H318 : Causes serious eye damage.

H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage Flam. Sol. : Flammable solids Skin Irrit. : Skin irritation

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

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; 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 population; 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is

according to Regulation (EC) No. 1907/2006



HYDRO PELLET 1700

 Version
 Revision Date:
 SDS Number:
 Print Date:
 20.05.2022

 2.1
 22.09.2021
 102000029891
 Date of first issue: 06.08.2018

not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any

other materials or in any process, unless specified in the text.

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