

SAFETY DATA SHEET

03-February-2022

Issue date

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

1.1. Product identifier

Trade name or designation

of the mixture

GALVA BRITE

Registration number

Synonyms None.

Product code BDS002119AE

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

Identified uses Anti Corrosion Products

Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company name CRC Industries Europe by

Touwslagerstraat 1 **Address**

> 9240 Zele Belgium

+32(0)52/45.60.11 Telephone Fax +32(0)52/45.00.34 E-mail hse@crcind.com Website www.crcind.com

1.4. Emergency telephone

number

Tel.: +32(0)52/45.60.11 (office hours: 9-17h CET)

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

Austria National Poisons

Information Centre

+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Belgium National Poisons

Control Center

070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Bulgaria National Toxicological Information

Centre

+359 2 9154233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Czech Republic National Poisons Information

Centre

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons Control Center

+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Estonia National Poisons Information Centre

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)

Finland National Poison Information Center

(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

France National Poisons Control Center

ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Hungary National Emergency Phone Number

36 80 20 11 99 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Lithuania Neatidėliotina informacija apsinuodijus +370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Malta Accident and **Emergency Department** 2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Netherlands National Poisons Information Center (NVIC)

030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)

Norway Norwegian Poison 22 59 13 00 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.) **Information Center**

800 250 250 (Available 24 hours a day. SDS/Product information may not be **Portugal Poison Centre**

available for the Emergency Service.)

Romania Număr de telefon care poate fi apelat în caz

de urgență:

021 5992300, int. 291 Spitalul Clinic de Urgență București:

spital@urgentafloreasca.ro

0265 212111, 0265 211292, 0265 217235 Spitalul Clinic Judetean de Urgentă Romania

Târgu Mures: secretariat@spitjudms.ro

Slovakia National Toxicological Information

Centre

+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Sweden National Poison

Information Center

112 - and ask for Poison Information (Available 24 hours a day. SDS/Product

145 (Available 24 hours a day. SDS/Product information may not be available for

information may not be available for the Emergency Service.)

Switzerland Tox Info

the Emergency Service.) Suisse

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Aerosols Category 1 H222 - Extremely flammable

aerosol.

H229 - Pressurized container: May

burst if heated.

Health hazards

Specific target organ toxicity - single

exposure

Category 3 narcotic effects

H336 - May cause drowsiness or

dizziness.

Specific target organ toxicity - repeated

exposure

Category 2 (central nervous system)

H373 - May cause damage to organs (central nervous system) through prolonged or repeated

exposure.

Environmental hazards

Hazardous to the aquatic environment,

long-term aquatic hazard

Category 2

H411 - Toxic to aquatic life with

SDS FII

long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Ethyl acetate, Hydrocarbons, C9, aromatics, Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic, Contains:

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

Hazard pictograms



Signal word Danger

Hazard statements

Extremely flammable aerosol. H222

Pressurized container: May burst if heated. H229 May cause drowsiness or dizziness. H336

May cause damage to organs (central nervous system) through prolonged or repeated exposure. H373

Toxic to aquatic life with long lasting effects. H411

Precautionary statements

Prevention

Keep out of reach of children. P102

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

Do not spray on an open flame or other ignition source. P211

Do not pierce or burn, even after use. P251 Avoid breathing mist/vapours/spray. P261

Use only outdoors or in a well-ventilated area. P271

Response Not assigned.

Storage

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Dimethyl ether	50 - 75	115-10-6 204-065-8	01-2119472128-37	603-019-00-8	#
Classification	Flam. Gas	1A;H220, Press. Gas	s;H280		
Ethyl acetate	5 - 10	141-78-6 205-500-4	01-2119475103-46	607-022-00-5	#
Classification	Flam. Liq.	2;H225, Eye Irrit. 2;H	319, STOT SE 3;H336		
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic	<10	64742-82-1 919-446-0	01-2119458049-33	-	
Classification		3;H226, STOT SE 3; quatic Chronic 2;H41	H336, STOT RE 1;H372, A 1	sp. Tox.	
n-Butyl acetate	1 - 5	123-86-4 204-658-1	01-2119485493-29	607-025-00-1	#
Classification	Flam. Liq.	3;H226, STOT SE 3;	H336		
Hydrocarbons, C9, aromatics	0 - 5	- 918-668-5	01-2119455851-35	649-356-00-4	
Classification	Flam. Liq. Chronic 2;		H335;H336, Asp. Tox. 1;H3	804, Aquatic	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	0 - 5	- 919-857-5	01-2119463258-33	-	
Classification	Flam. Liq.	3;H226, STOT SE 3;	H336, Asp. Tox. 1;H304		
Zinc oxide	<2,5	1314-13-2 215-222-5	01-2119463881-32	030-013-00-7	
Classification	Aquatic A	cute 1;H400, Aquatic	Chronic 1;H410		
calcium;2-ethylhexanoate	<1	136-51-6 205-249-0	01-2119978297-19	-	
Classification	Eye Dam.	1;H318, Repr. 2;H36	1		

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#: This substance has been assigned Union workplace exposure limit(s).

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

centre or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contactRinse with water. Get medical attention if irritation develops and persists. **Ingestion**In the unlikely event of swallowing contact a physician or poison control centre.

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

May cause drowsiness or dizziness. Narcosis. Headache. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Prolonged exposure may cause chronic effects.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing media

Dry powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters Special protective equipment for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire fighting procedures

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Avoid breathing mist/vapours. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. The product is immiscible with water and will spread on the water surface. Prevent entry into waterways, sewer, basements or confined areas. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist/vapours. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS). Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)

Not available. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Material name: GALVA BRITE - Manufacturers BDS002119AE Version #: 01 Issue date: 03-February-2022

Occupational exposure limits

Austria. MAK List, OEL Ordinance (G Components	wv), BGBI. II, no. 184/2001 Type	Value	Form
Aluminium powder (stabilised) (CAS 7429-90-5)	MAK	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.
Dimethyl ether (CAS 115-10-6)	Ceiling	3820 mg/m3	
110 10 0)		2000 ppm	
	MAK	1910 mg/m3	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	MAK	734 mg/m3	
•		200 ppm	
	STEL	1468 mg/m3	
		400 ppm	
n-Butyl acetate (CAS 123-86-4)	Ceiling	480 mg/m3	
,		100 ppm	
	MAK	241 mg/m3	
		100 ppm	
Zinc oxide (CAS 1314-13-2)	MAK	5 mg/m3	Fume and respirable dust.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.
Belgium. Exposure Limit Values Components	Туре	Value	Form
Aluminium powder (stabilised) (CAS	TWA	1 mg/m3	Respirable fraction.
7429-90-5)			
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3	
		400 ppm	
	TWA	734 mg/m3	
		200 ppm	
Hydrocarbons, C9-12, n-alkanes, isoalkanes,	TWA	533 mg/m3	
cyclic (CAS 64742-82-1)		100 ppm	
n-Butyl acetate (CAS	STEL	712 mg/m3	
123-86-4)		150 ppm	
	TWA	238 mg/m3	
	1 **/ 1	50 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	30 ррті 10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Bulgaria. OELs. Regulation No 13 on Components		-	•
Aluminium powder (stabilised) (CAS	TWA	2 mg/m3	

Bulgaria. OELs. Regulation No 13 o Components	n protection of workers againg Type	nst risks of exposure to chem Value	Form
		10 mg/m3	Dust.
		1,5 mg/m3	Respirable fraction.
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3	
		400 ppm	
	TWA	734 mg/m3	
		200 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	950 mg/m3	
	TWA	710 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Croatia. Dangerous Substance Exp Components	osure Limit Values in the Wo Type	orkplace (ELVs), Annexes 1 an Value	d 2, Narodne Novine, 13/0 Form
Aluminium powder (stabilised) (CAS	MAC	4 mg/m3	Respirable dust.
7429-90-5)		10 mg/m3	Total dust.
Dimethyl ether (CAS	MAC	1920 mg/m3	rotal duot.
115-10-6)	W/ C	1000 ppm	
Ethyl acetate (CAS	MAC	734 mg/m3	
141-78-6)	W/ CO	704 mg/mo	
		200 ppm	
	STEL	1468 mg/m3	
		400 ppm	
n-Butyl acetate (CAS 23-86-4)	MAC	241 mg/m3	
		50 ppm	
	STEL	723 mg/m3	
		150 ppm	
Zinc oxide (CAS 1314-13-2)	MAC	2 mg/m3	Respirable dust.
	STEL	10 mg/m3	Respirable dust.
Cyprus. OELs. Control of factory at Components	mosphere and dangerous su Type	ıbstances in factories regulati Value	on, PI 311/73, as amended Form
n-Butyl acetate (CAS 123-86-4)	TWA	710 mg/m3	
120 00 4)		150 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.
Czech Republic. OELs. Governmen Components	t Decree 361 Type	Value	Form
<u> </u>			
Aluminium powder (stabilised) (CAS 7429-90-5)	TWA	10 mg/m3	Dust.
Dimethyl ether (CAS 115-10-6)	Ceiling	2000 mg/m3	
•	TWA	1000 mg/m3	
Ethyl acetate (CAS 141-78-6)	Ceiling	900 mg/m3	

Components	ecree 361 Type	Value	Form
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic (CAS 64742-82-1)	Ceiling	1000 mg/m3	
	TWA	200 mg/m3	
n-Butyl acetate (CAS 123-86-4)	Ceiling	1200 mg/m3	
	TWA	950 mg/m3	
Zinc oxide (CAS 1314-13-2)	Ceiling	5 mg/m3	
,	TWA	2 mg/m3	
Denmark Components	Туре	Value	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	25 ppm	
Denmark. Exposure Limit Values Components	Туре	Value	Form
Aluminium powder (stabilised) (CAS 7429-90-5)	TLV	5 mg/m3	Fume.
·		5 mg/m3	Dust and fume.
		2 mg/m3	Respirable dust and/or fume.
Dimethyl ether (CAS 115-10-6)	TLV	1920 mg/m3	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	TLV	540 mg/m3	
		150 ppm	
n-Butyl acetate (CAS 123-86-4)	TLV	710 mg/m3	
		150 ppm	
Zinc oxide (CAS 1314-13-2)	TLV	4 mg/m3	
Estonia. OELs. Occupational Exposur Components	e Limits of Hazardous Sul Type	bstances (Regulation No. 105/ Value	2001, Annex), as amende Form
Aluminium powder (stabilised) (CAS 7429-90-5)	TWA	4 mg/m3	Fine dust, respiratory fraction
,		10 mg/m3	Total dust.
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	STEL	1100 mg/m3	
		300 ppm	
	TWA	500 mg/m3	
		150 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	700 mg/m3	
		150 ppm	
	TWA	500 mg/m3	
		400	
		100 ppm	

Components	Туре	Value	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	500 mg/m3	
Finland. Workplace Expe Components	osure Limits Type	Value	Form
Aluminium powder (stabilised) (CAS 7429-90-5)	TWA	1,5 mg/m3	Welding fume.
Dimethyl ether (CAS 115-10-6)	TWA	2000 mg/m3	
Ethyl acetate (CAS	STEL	1000 ppm 1470 mg/m3	
141-78-6)	714/4	400 ppm	
	TWA	730 mg/m3 200 ppm	
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic (CAS 64742-82-1)	TWA	200 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	725 mg/m3	
	TWA	150 ppm 240 mg/m3	
Zinc oxide (CAS 1314-13-	•	50 ppm 10 mg/m3	Fume.
France. Threshold Limit Components	TWA Values (VLEP) for Occupationa Type	2 mg/m3 al Exposure to Chemicals in France, IN Value	Fume. RS ED 984 Form
Aluminium powder (stabilised) (CAS 7429-90-5)	VME	5 mg/m3	Dust.
Regulatory status:	Indicative limit (VL)	5 mg/m3	Welding fume.
Regulatory status:	Indicative limit (VL)	-	•
		10 mg/m3	
Regulatory status:	Indicative limit (VL)	10 mg/m3	
	Indicative limit (VL) VME	10 mg/m3 1920 mg/m3	
Dimethyl ether (CAS	VME Regulatory indicative (VRI)	·	
Dimethyl ether (CAS 115-10-6) Regulatory status: Regulatory status: Ethyl acetate (CAS	VME	1920 mg/m3	
Dimethyl ether (CAS 115-10-6) Regulatory status: Regulatory status: Ethyl acetate (CAS	VME Regulatory indicative (VRI) Regulatory indicative (VRI)	1920 mg/m3 1000 ppm	
Dimethyl ether (CAS 115-10-6) Regulatory status: Regulatory status: Ethyl acetate (CAS 141-78-6)	VME Regulatory indicative (VRI) Regulatory indicative (VRI) VLE	1920 mg/m3 1000 ppm 1468 mg/m3	
Dimethyl ether (CAS 115-10-6) Regulatory status: Regulatory status: Ethyl acetate (CAS 141-78-6) Regulatory status:	VME Regulatory indicative (VRI) Regulatory indicative (VRI) VLE Regulatory binding (VRC) Regulatory binding (VRC)	1920 mg/m3 1000 ppm 1468 mg/m3 400 ppm	
Dimethyl ether (CAS 115-10-6) Regulatory status: Regulatory status: Ethyl acetate (CAS 141-78-6) Regulatory status: Regulatory status: Regulatory status: Regulatory status: Regulatory status: Regulatory status: n-Butyl acetate (CAS	Regulatory indicative (VRI) Regulatory indicative (VRI) VLE Regulatory binding (VRC) Regulatory binding (VRC) VME	1920 mg/m3 1000 ppm 1468 mg/m3 400 ppm 734 mg/m3	
Dimethyl ether (CAS 115-10-6) Regulatory status: Regulatory status: Ethyl acetate (CAS 141-78-6) Regulatory status: Regulatory status: Regulatory status:	Regulatory indicative (VRI) Regulatory indicative (VRI) VLE Regulatory binding (VRC) Regulatory binding (VRC) VME Regulatory binding (VRC) Regulatory binding (VRC)	1920 mg/m3 1000 ppm 1468 mg/m3 400 ppm 734 mg/m3 200 ppm	

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984 Components Type Value Form

Components Value **Type** VME 710 mg/m3 Regulatory status: Indicative limit (VL) 150 ppm Regulatory status: Indicative limit (VL) Zinc oxide (CAS 1314-13-2) **VME** 5 mg/m3 Fume. Regulatory status: Indicative limit (VL) 10 mg/m3 Dust.

Regulatory status: Indicative limit (VL)

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

in the Work Area (DFG) Components	Туре	Value	Form
Aluminium powder (stabilised) (CAS 7429-90-5)	TWA	4 mg/m3	Inhalable dust.
,		1,5 mg/m3	Respirable dust.
Dimethyl ether (CAS 115-10-6)	TWA	1900 mg/m3	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	TWA	750 mg/m3	
		200 ppm	
n-Butyl acetate (CAS 123-86-4)	TWA	480 mg/m3	
		100 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	2 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.
Germany - TRGS 900			
Components	Туре	Value	
Hydrocarbons, C9-C11,	TWA	300 mg/m3	
n-alkanes, isoalkanes,			
n-alkanes, isoalkanes, cyclics, < 2% aromatics	s in the Amhient Air at the Workplace		
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values	s in the Ambient Air at the Workplace Type	Value	Form
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS		Value 10 mg/m3	Form Inhalable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS	Туре	10 mg/m3	Inhalable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5)	Type AGW	10 mg/m3 1,25 mg/m3	
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5) Dimethyl ether (CAS	Туре	10 mg/m3	Inhalable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5) Dimethyl ether (CAS	Type AGW	10 mg/m3 1,25 mg/m3	Inhalable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS (7429-90-5) Dimethyl ether (CAS (115-10-6) Ethyl acetate (CAS	Type AGW	10 mg/m3 1,25 mg/m3 1900 mg/m3	Inhalable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5) Dimethyl ether (CAS 115-10-6) Ethyl acetate (CAS	AGW AGW	10 mg/m3 1,25 mg/m3 1900 mg/m3 1000 ppm	Inhalable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5) Dimethyl ether (CAS 115-10-6) Ethyl acetate (CAS 141-78-6) n-Butyl acetate (CAS	AGW AGW	10 mg/m3 1,25 mg/m3 1900 mg/m3 1000 ppm 730 mg/m3	Inhalable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5) Dimethyl ether (CAS 115-10-6) Ethyl acetate (CAS 141-78-6) n-Butyl acetate (CAS	AGW AGW	10 mg/m3 1,25 mg/m3 1900 mg/m3 1000 ppm 730 mg/m3 200 ppm 300 mg/m3	Inhalable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5) Dimethyl ether (CAS 115-10-6) Ethyl acetate (CAS 141-78-6) n-Butyl acetate (CAS 123-86-4)	AGW AGW AGW	10 mg/m3 1,25 mg/m3 1900 mg/m3 1000 ppm 730 mg/m3 200 ppm 300 mg/m3 62 ppm	Inhalable fraction. Respirable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5) Dimethyl ether (CAS 115-10-6) Ethyl acetate (CAS 141-78-6) n-Butyl acetate (CAS 123-86-4)	AGW AGW	10 mg/m3 1,25 mg/m3 1900 mg/m3 1000 ppm 730 mg/m3 200 ppm 300 mg/m3 62 ppm 10 mg/m3	Inhalable fraction. Respirable fraction. Inhalable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5) Dimethyl ether (CAS 115-10-6) Ethyl acetate (CAS 141-78-6) n-Butyl acetate (CAS 123-86-4)	AGW AGW AGW	10 mg/m3 1,25 mg/m3 1900 mg/m3 1000 ppm 730 mg/m3 200 ppm 300 mg/m3 62 ppm	Inhalable fraction. Respirable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5) Dimethyl ether (CAS 115-10-6) Ethyl acetate (CAS 141-78-6) n-Butyl acetate (CAS 123-86-4) Zinc oxide (CAS 1314-13-2) Greece. OELs (Decree No. 90/1995)	AGW AGW AGW AGW AGW AGW AGW	10 mg/m3 1,25 mg/m3 1900 mg/m3 1000 ppm 730 mg/m3 200 ppm 300 mg/m3 62 ppm 10 mg/m3 1,25 mg/m3	Inhalable fraction. Respirable fraction. Inhalable fraction. Respirable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics	AGW AGW AGW AGW	10 mg/m3 1,25 mg/m3 1900 mg/m3 1000 ppm 730 mg/m3 200 ppm 300 mg/m3 62 ppm 10 mg/m3	Inhalable fraction. Respirable fraction. Inhalable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5) Dimethyl ether (CAS 115-10-6) Ethyl acetate (CAS 141-78-6) n-Butyl acetate (CAS 123-86-4) Zinc oxide (CAS 1314-13-2) Greece. OELs (Decree No. 90/1998 Components Aluminium powder (stabilised) (CAS	AGW AGW AGW AGW AGW AGW AGW	10 mg/m3 1,25 mg/m3 1900 mg/m3 1000 ppm 730 mg/m3 200 ppm 300 mg/m3 62 ppm 10 mg/m3 1,25 mg/m3	Inhalable fraction. Respirable fraction. Inhalable fraction. Respirable fraction.
n-alkanes, isoalkanes, cyclics, < 2% aromatics Germany. TRGS 900, Limit Values Components Aluminium powder (stabilised) (CAS 7429-90-5) Dimethyl ether (CAS 115-10-6) Ethyl acetate (CAS 141-78-6) n-Butyl acetate (CAS 123-86-4) Zinc oxide (CAS 1314-13-2) Greece. OELs (Decree No. 90/1995)	AGW AGW AGW AGW AGW AGW AGW Type	10 mg/m3 1,25 mg/m3 1900 mg/m3 1000 ppm 730 mg/m3 200 ppm 300 mg/m3 62 ppm 10 mg/m3 1,25 mg/m3 Value	Inhalable fraction. Respirable fraction. Inhalable fraction. Respirable fraction. Form

Material name: GALVA BRITE - Manufacturers

Greece. OELs (Decree No. 90/1999)			-
Components	Туре	Value	Form
		10 mg/m3	Welding fume.
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3	
		400 ppm	
	TWA	734 mg/m3	
		200 ppm	
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic (CAS 64742-82-1)	STEL	720 mg/m3	
		125 ppm	
	TWA	575 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	950 mg/m3	
		200 ppm	
	TWA	710 mg/m3	
		150 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
,	TWA	5 mg/m3	Fume.
Hungan, OELa Jaint Bassas on C		g	
Hungary. OELs. Joint Decree on C Components	Type	Value	Form
Aluminium powder (stabilised) (CAS 7429-90-5)	TWA	1 mg/m3	Respirable.
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
Ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3	
	TWA	734 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
	TWA	241 mg/m3	
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.
		5 mg/m3	Dust.
Iceland. OELs. Regulation 154/1999 Components		Value	Form
	Туре		
Aluminium powder (stabilised) (CAS 7429-90-5)	STEL	10 mg/m3	Dust.
•	TWA	5 mg/m3	Dust.
Dimethyl ether (CAS	TWA	1885 mg/m3	
115-10-6)		-	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	TWA	540 mg/m3	
		150 ppm	
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic (CAS 64742-82-1)	TWA	145 mg/m3	
- ,		25 ppm	
n-Butyl acetate (CAS 123-86-4)	TWA	700 mg/m3	
		150 ppm	

Components	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	TWA	4 mg/m3	Fume.
reland. Occupational Exposure Limits Components	Туре	Value	Form
Aluminium powder stabilised) (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3	
		400 ppm	
	TWA	734 mg/m3	
		200 ppm	
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic (CAS 64742-82-1)	TWA	573 mg/m3	
,		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	950 mg/m3	
		200 ppm	
	TWA	710 mg/m3	
		150 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction and fume.
	TWA	2 mg/m3	Respirable fraction and fume.
taly. Occupational Exposure Limits			
Components	Туре	Value	Form
Aluminium powder (stabilised) (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3	
		400 ppm	
	TWA	734 mg/m3	
		200 ppm	
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic (CAS 64742-82-1)	TWA	100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Latvia. OELs. Occupational exposure lim Components	it values of chemical substances Type	s in work environment Value	
Aluminium powder	TWA	2 mg/m3	

Latvia. OELs. Occupational exposu Components	Type	Value	••
Dimethyl ether (CAS 15-10-6)	TWA	1920 mg/m3	
,		1000 ppm	
Ethyl acetate (CAS 41-78-6)	STEL	1468 mg/m3	
		400 ppm	
	TWA	200 mg/m3	
		54 ppm	
lydrocarbons, C9-12, -alkanes, isoalkanes, yclic (CAS 64742-82-1)	STEL	300 mg/m3	
yelle (CAS 04742-02-1)	TWA	200 mg/m3	
-Butyl acetate (CAS	STEL	723 mg/m3	
23-86-4)	OTEL	150 ppm	
	TWA	241 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	0,5 mg/m3	
,		-	
Lithuania. OELs. Limit Values for (Components	Chemical Substances, Genera Type	il Requirements Value	Form
Numinium powder stabilised) (CAS '429-90-5)	TWA	5 mg/m3	Inhalable fraction.
, in the second second		2 mg/m3	Respirable fraction.
oimethyl ether (CAS 15-10-6)	STEL	2280 mg/m3	
		1500 ppm	
	TWA	1920 mg/m3	
		1000 ppm	
thyl acetate (CAS 41-78-6)	Ceiling	1100 mg/m3	
		300 ppm	
	TWA	500 mg/m3	
		150 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	
.uxembourg. Binding Occupationa Components	al exposure limit values (Anne Type	ex I), Memorial A Value	
Ethyl acetate (CAS 41-78-6)	STEL	1468 mg/m3	
,		400 ppm	
-Butyl acetate (CAS	STEL	723 mg/m3	
23-86-4)		150 ppm	
Malta. OELs. Occupational Exposu Schedules I and V)			y Authority Act (CAP. 424
Components	Туре	Value	
	TWA	1920 mg/m3	
Dimethyl ether (CAS			
Dimethyl ether (CAS 15-10-6)		1000 ppm	
Dimethyl ether (CAS 15-10-6) Ethyl acetate (CAS	STEL	1468 mg/m3	
Dimethyl ether (CAS 15-10-6) Ethyl acetate (CAS	STEL	1468 mg/m3 400 ppm	
Dimethyl ether (CAS 15-10-6) Ethyl acetate (CAS 41-78-6)		1468 mg/m3	

letherlands. OELs (binding) Components	Туре	Value	
Dimethyl ether (CAS 15-10-6)	STEL	1500 mg/m3	
,	TWA	950 mg/m3	
ithyl acetate (CAS 41-78-6)	STEL	1468 mg/m3	
11.10.0)	TWA	734 mg/m3	
lorway Components	Туре	Value	
lydrocarbons, C9-C11, -alkanes, isoalkanes, yclics, < 2% aromatics	TWA	275 mg/m3	
orway. Administrative Norms for	=		F
components	Туре	Value	Form
luminium powder stabilised) (CAS 429-90-5)	TLV	5 mg/m3	Pyrophoric powder.
•		5 mg/m3	Welding fume.
oimethyl ether (CAS 15-10-6)	TLV	384 mg/m3	
		200 ppm	
thyl acetate (CAS 41-78-6)	STEL	1468 mg/m3	
		400 ppm	
	TLV	734 mg/m3	
		200 ppm	
lydrocarbons, C9-12, -alkanes, isoalkanes, yclic (CAS 64742-82-1)	TLV	120 mg/m3	
, (o o o ,		25 ppm	
-Butyl acetate (CAS 23-86-4)	TLV	355 mg/m3	
		75 ppm	
inc oxide (CAS 1314-13-2)	TLV	5 mg/m3	Respirable dust.
		5 mg/m3	Dust.
		10 mg/m3	Total dust.
oland. Ordinance of the Minister of oncentrations and intensities of he components			
Numinium powder	TWA	2,5 mg/m3	Inhalable fraction.
stabilised) (CAS 429-90-5)		, 	
		1,2 mg/m3	Respirable fraction.
		0 ppm	Respirable fraction.
		0 ppm 0 ppm	Respirable fraction. Inhalable fraction.
	TWA	0 ppm 1000 mg/m3	•
15-10-6)		0 ppm 1000 mg/m3 0 ppm	•
15-10-6) thyl acetate (CAS	TWA STEL	0 ppm 1000 mg/m3 0 ppm 1468 mg/m3	•
15-10-6) thyl acetate (CAS	STEL	0 ppm 1000 mg/m3 0 ppm 1468 mg/m3 0 ppm	•
Dimethyl ether (CAS 15-10-6) Ethyl acetate (CAS 41-78-6)		0 ppm 1000 mg/m3 0 ppm 1468 mg/m3 0 ppm 734 mg/m3	•
15-10-6) ithyl acetate (CAS 41-78-6)	STEL	0 ppm 1000 mg/m3 0 ppm 1468 mg/m3 0 ppm 734 mg/m3 0 ppm	•
15-10-6) ithyl acetate (CAS	STEL	0 ppm 1000 mg/m3 0 ppm 1468 mg/m3 0 ppm 734 mg/m3	•

Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817 Components

Type

Value

Form

Republic	g/m3 g/m3 m3 Inhalable fraction. Inhalable fraction. Inhalable fraction. Inhalable fraction. Inhalable fraction. Inhalable fraction.
Republic	m3 Inhalable fraction. Inhalable fraction. 13 Inhalable fraction. Inhalable fraction. Inhalable fraction.
Republic	m3 Inhalable fraction. Inhalable fraction. 13 Inhalable fraction. Inhalable fraction. Inhalable fraction.
Republic	m3 Inhalable fraction. Inhalable fraction. 13 Inhalable fraction. Inhalable fraction. Inhalable fraction. 19/m3
Republic	m3 Inhalable fraction. Inhalable fraction. 13 Inhalable fraction. Inhalable fraction. Inhalable fraction. 19/m3
Republic	m3 Inhalable fraction. Inhalable fraction. 13 Inhalable fraction. Inhalable fraction. Inhalable fraction. 19/m3
Republic	Inhalable fraction. Inhalable fraction. Inhalable fraction. Inhalable fraction. Inhalable fraction.
Republic	Inhalable fraction. Inhalable fraction. Inhalable fraction. Inhalable fraction. Inhalable fraction.
Republic	Inhalable fraction. Inhalable fraction. Inhalable fraction. Ing/m3
Republic	Inhalable fraction. ng/m3 pm
Republic	ng/m3 pm
	pm
	pm
	•
	•
	ng/m3
	m
	g/m3
	m
	g/m3
	m
	g/m3
	1
nical age	•
noui ago	Form
	n3 Respirable fraction.
	m
	m
	m
	m
	n3 Respirable fraction.
chemica	place
00	Form
	n3 Fume.
	m3 Dust.
	n3 Dust.
	n3 Fume.
	ng/m3
	pm g/m3
chemica	m Respirable fraction. n3 Respirable fraction. n3 Respirable fraction. n3 Form n3 Fume. n3 Dust. n3 Dust. n3 Fume. n9/m3

Туре	Value	Form
	139 ppm	
TWA	400 mg/m3	
	111 ppm	
STEL	1000 mg/m3	
T\A/A	700 ma/m2	
	· ·	
SIEL	•	
Τ\Λ/Δ		
1 7 7 7	_	
STEI		Fume.
	-	Fume.
	-	
0/2007 concerning protection of Type	of health in work with chemic Value	al agents Form
TWA	4 mg/m3	Inhalable fraction.
	1,5 mg/m3	Respirable fraction.
TWA	1920 mg/m3	·
	1000 ppm	
STEL	1468 mg/m3	
	400 ppm	
TWA	734 mg/m3	
	200 ppm	
STEL	600 mg/m3	
	100 ppm	
TWA	300 mg/m3	
	50 ppm	
STEL	723 mg/m3	
	150 ppm	
TWA	241 mg/m3	
	50 ppm	
STEL	1 mg/m3	Respirable fume.
TWA	1 mg/m3	Respirable fume.
	gainst risks due to exposure	to chemicals while working
Туре	Value	Form
	10 mg/m2	
TWA	10 mg/m3	Inhalable fraction.
TWA	1,25 mg/m3	Respirable fraction.
TWA	1,25 mg/m3 1920 mg/m3	
	1,25 mg/m3	
	1,25 mg/m3 1920 mg/m3	
	TWA STEL TWA STEL TWA STEL TWA 0/2007 concerning protection of Type TWA TWA STEL TWA	TWA 400 mg/m3 1111 ppm STEL 1000 mg/m3 TWA 700 mg/m3 STEL 950 mg/m3 STEL 950 ppm TWA 715 mg/m3 150 ppm STEL 10 mg/m3 TWA 5 mg/m3 D/2007 concerning protection of health in work with chemic Type Value TWA 4 mg/m3 TWA 1920 mg/m3 TWA 1920 mg/m3 TWA 1920 mg/m3 TWA 734 mg/m3 200 ppm STEL 1468 mg/m3 400 ppm TWA 734 mg/m3 200 ppm STEL 1000 ppm TWA 300 mg/m3 50 ppm STEL 723 mg/m3 150 ppm TWA 300 ppm TWA 300 ppm TWA 300 mg/m3 50 ppm STEL 723 mg/m3 50 ppm STEL 723 mg/m3 50 ppm STEL 1 mg/m3 50 ppm

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

(Official Gazette of the Republic of Components	Туре	Value	Form
n-Butyl acetate (CAS 123-86-4)	TWA	300 mg/m3	
		62 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Spain. Occupational Exposure Lin Components	nits Type	Value	Form
Aluminium powder (stabilised) (CAS 7429-90-5)	TWA	5 mg/m3	Welding fume.
		10 mg/m3	Dust.
Dimethyl ether (CAS 15-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3	
	T14/4	400 ppm	
	TWA	734 mg/m3	
		200 ppm	
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic (CAS 64742-82-1)	STEL	580 mg/m3	
,		100 ppm	
	TWA	290 mg/m3	
		50 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	965 mg/m3	
		200 ppm	
	TWA	724 mg/m3	
		150 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Sweden			
Components	Туре	Value	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	STEL (STV)	600 mg/m3	
5, 51.50, · 2 /6 aromatios	TWA	300 mg/m3	
Sweden. OELs. Work Environment		•	2015:7)
Components	Type	Value	Form
Aluminium powder (stabilised) (CAS 7429-90-5)	TWA	5 mg/m3	Total dust.
·		2 mg/m3	Respirable dust.
Dimethyl ether (CAS	STEL	1500 mg/m3	
115-10-6)		222	
	TIACA	800 ppm	
	TWA	950 mg/m3	
	0.1"	500 ppm	
Ethyl acetate (CAS 141-78-6)	Ceiling	1100 mg/m3	
		300 ppm	
	TWA	550 mg/m3	

-Butyl acetate (CAS	Ceiling	723 mg/m3	
23-86-4)	- 3	-	
		150 ppm	
	STEL	700 mg/m3	
		150 ppm	
	TWA	500 mg/m3	
		100 ppm	
nc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Total dust.
witzerland	Toma	Value	
omponents	Туре	Value	
ydrocarbons, C9-C11, ·alkanes, isoalkanes, /clics, < 2% aromatics	STEL	6000 mg/m3	
	TWA	300 mg/m3	
witzerland. SUVA Grenzwerte am	Arbeitsplatz	-	
omponents	Туре	Value	Form
luminium powder stabilised) (CAS 429-90-5)	TWA	3 mg/m3	Respirable fraction.
imethyl ether (CAS 15-10-6)	TWA	1910 mg/m3	
		1000 ppm	
thyl acetate (CAS 41-78-6)	STEL	1460 mg/m3	
		400 ppm	
	TWA	730 mg/m3	
		200 ppm	
ydrocarbons, C9-12, -alkanes, isoalkanes, /clic (CAS 64742-82-1)	TWA	525 mg/m3	
		100 ppm	
Butyl acetate (CAS 23-86-4)	STEL	720 mg/m3	
		150 ppm	
	TWA	240 mg/m3	
	OT	50 ppm	
inc oxide (CAS 1314-13-2)	STEL	3 mg/m3	Respirable fume.
	TWA	3 mg/m3	Respirable fume.
K. EH40 Workplace Exposure Lin omponents	nits (WELs) Type	Value	Form
luminium powder stabilised) (CAS 429-90-5)	TWA	4 mg/m3	Respirable dust.
,		10 mg/m3	Inhalable dust.
imethyl ether (CAS	STEL	958 mg/m3	
15-10-6)		500	
	T\0/0	500 ppm	
	TWA	766 mg/m3	
thyl acetate (CAS 41-78-6)	STEL	400 ppm 1468 mg/m3	
F1-10-0)		400 ppm	
	TWA	734 mg/m3	
		200 ppm	

ПК	EH40	Workplace	Evnosuro	imite	(WELS)
UN.	E040	vvorkbiace	Exposure	LIIIIIIS	(VVELS)

Components	Туре	Value	Form
n-Butyl acetate (CAS 123-86-4)	STEL	966 mg/m3	
		200 ppm	
	TWA	724 mg/m3	
		150 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU

Components	Туре	Value
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3
		1000 ppm
Ethyl acetate (CAS 141-78-6)	STEL	1468 mg/m3
		400 ppm
	TWA	734 mg/m3
		200 ppm
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3
		150 ppm
	TWA	241 mg/m3
		50 ppm

Biological limit values

Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)

Components	Value	Determinant	Specimen	Sampling Time	
Aluminium powder (stabilised) (CAS 7429-90-5)	200 mg/l	Aluminium	Urine	*	

^{* -} For sampling details, please see the source document.

Germany, TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time
Aluminium powder (stabilised) (CAS 7429-90-5)	50 μg/g	Aluminium	Urine	*

^{* -} For sampling details, please see the source document.

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	Value	Determinant	Specimen	Sampling Time
Aluminium powder (stabilised) (CAS 7429-90-5)	0,25 μmol/mmol	Aluminium	Creatinine in urine	*
	0,06 mg/g	Aluminium	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA) Components Value Determinant Specimen **Sampling Time**

50 μg/g Aluminium powder Aluminium Creatinine in (stabilised) (CAS urine 7429-90-5)

Recommended monitoring procedures

Follow standard monitoring procedures.

Material name: GALVA BRITE - Manufacturers

^{* -} For sampling details, please see the source document.

Derived no effect levels (DNELs)

General Population

Value	Assessment factor	Notes
6 mg/kg bw/day 8 mg/m3	40 10	Effect on fertility Effect on fertility
471 mg/m3	25	Repeated dose toxicity
367 mg/m3 37 mg/kg bw/day 734 mg/m3		irritation respiratory tract irritation respiratory tract irritation respiratory tract
180 mg/m3 11 mg/kg bw/day	56	Repeated dose toxicity
, cyclics, < 2% aromatics (C	AS -)	
300 mg/kg 900 mg/m3 300 mg/kg		
300 mg/m3		irritation respiratory tract irritation respiratory tract Neurotoxicity
o mgmg burday	.00	. To all oto Aloity
Value	Assessment factor	Notes
value	Assessment factor	NOIGS
5,67 mg/kg bw/day	20	developmental toxicity / teratogenicity
32 mg/m3	5	developmental toxicity / teratogenicity
		0
1894 mg/m3	12,5	Repeated dose toxicity
Ü	,	,
734 mg/m3 63 mg/kg bw/day 1468 mg/m3		irritation respiratory tract irritation respiratory tract irritation respiratory tract
· ·		. ,
840 mg/m3 25 mg/kg bw/day	24	Repeated dose toxicity
	AS -)	
300 mg/kg	,	
-		
300 mg/m3 7 mg/kg bw/day 11 mg/kg bw/day 600 mg/m3	6 25 50	irritation respiratory tract Repeated dose toxicity Neurotoxicity irritation respiratory tract
Value	A	Natas
value	Assessment factor	Notes
0,155 mg/l 0,681 mg/kg 0,045 mg/kg	1000	
160 mg/l	10	
0,24 mg/l 1,15 mg/kg	10	
u, 140 mg/kg		
0,18 mg/l	100	
	6 mg/kg bw/day 8 mg/m3 471 mg/m3 367 mg/m3 37 mg/kg bw/day 734 mg/m3 180 mg/m3 11 mg/kg bw/day 900 mg/kg 900 mg/m3 300 mg/kg 900 mg/m3 6 mg/kg bw/day Value 5,67 mg/kg bw/day 32 mg/m3 1894 mg/m3 734 mg/m3 63 mg/kg bw/day 1468 mg/m3 840 mg/m3 25 mg/kg bw/day 1468 mg/m3 300 mg/kg 1500 mg/m3 7 mg/kg bw/day 11 mg/kg bw/day 10,045 mg/kg 160 mg/l 0,24 mg/l 1,15 mg/kg 0,045 mg/kg 160 mg/l 0,24 mg/l 1,15 mg/kg 0,148 mg/kg 0,148 mg/kg	6 mg/kg bw/day 8 mg/m3

Soil 0,09 mg/kg

Exposure guidelines

Greece OEL: Skin designation

Ethyl acetate (CAS 141-78-6) Can be absorbed through the skin.

Iceland OELs: Skin designation

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic

(CAS 64742-82-1)

Spain OELs: Skin designation

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic

(CAS 64742-82-1)

Sweden Threshold Limit Values: Skin designation

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic Can be absorbed through the skin.

(CAS 64742-82-1)

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

Can be absorbed through the skin.

Can be absorbed through the skin.

established, maintain airborne levels to an acceptable level. Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.

Skin protection

When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough - Hand protection

time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Full contact: Glove material: nitrile. Use gloves with breakthrough time of 480 minutes. Minimum glove thickness 0.38 mm.

- Other Not available.

Respiratory protection Chemical respirator with organic vapour cartridge and full facepiece. (Filter type A)

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures When using do not smoke. Always observe good personal hygiene measures, such as washing

after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid. Aerosol. **Form** Grey. Colour Solvent. Odour

-83 °C (-117,4 °F) estimated Melting point/freezing point 77 °C (170,6 °F) estimated Boiling point or initial boiling

point and boiling range

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits Explosive limit - lower (%) 0,6 % estimated Explosive limit - upper

(%)

7,5 % estimated

< 0 °C (< 32,0 °F) Flash point > 200 °C (> 392 °F) **Auto-ignition temperature Decomposition temperature** Not available. pН Not applicable.

Solubility(ies)

Solubility (water) Insoluble in water Vapour pressureNot available.Vapour densityNot available.Relative density0,97 g/cm3 at 20°CParticle characteristicsNot available.

9.2. Other information

9.2.1. Information with regard No relevant additional information available. **to physical hazard classes**

9.2.2. Other safety characteristics

Explosive properties Not explosive.

Heat of combustion 23,39 kJ/g estimated

Oxidising properties Not oxidising.

VOC 675 g/l

SECTION 10: Stability and reactivity

10.1. ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid high temperatures.

10.5. Incompatible materials Strong oxidising agents. Nitrates.

decomposition products

10.6. Hazardous

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Carbon oxides.

Skin contact

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

Eye contact

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

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms May cause drowsiness or dizziness. Narcosis. Headache. Nausea, vomiting. Behavioural

changes. Decrease in motor functions.

11.1. Information on toxicological effects

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

Components Species Test Results

Dimethyl ether (CAS 115-10-6)

Acute Inhalation

LC50 Rat 308,5 mg/l, 4 Hours

Ethyl acetate (CAS 141-78-6)

Acute Dermal

LD50 Rabbit 20000 mg/kg

Inhalation

LC50 Rat 16000 ppm, 6 Hours

Oral

LD50 Rat 5,6 g/kg

Hydrocarbons, C9, aromatics

Acute

Dermal

LD50 Rabbit > 3160 mg/kg

Oral

LD50 Rat 3592 mg/kg

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Components Species Test Results

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

<u>Acute</u>

Dermal

LD50 Rabbit > 5000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

n-Butyl acetate (CAS 123-86-4)

<u>Acute</u>

Dermal

LD50 Rabbit 14122 mg/kg

Inhalation

LC50 Rat 23,4 mg/l/4h

Oral

LD50 Rat 14000 mg/kg

Zinc oxide (CAS 1314-13-2)

<u>Acute</u>

Dermal

LD50 Rabbit > 2000 mg/l

Inhalation

LC50 Mammal 2500 mg/m³

Oral

LD50 Mouse 7950 mg/kg

Skin corrosion/irritationBased on available data, the classification criteria are not met. **Serious eye damage/eye**Based on available data, the classification criteria are not met.

irritation

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic (CAS 64742-82-1)

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic 3 Not classifiable as to carcinogenicity to humans. (CAS 64742-82-1)

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Zinc oxide (CAS 1314-13-2) Carcinogenic, Category 1A

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

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure
Aspiration hazard

May cause damage to organs (central nervous system) through prolonged or repeated exposure.

Not likely, due to the form of the product.

Mixture versus substance

information

Not available.

11.2. Information on other hazards

Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Test Results Components **Species** Dimethyl ether (CAS 115-10-6) Aquatic Acute Crustacea EC50 Daphnia 4,4 mg/l LC50 Fish Fish 4,1 mg/l Ethyl acetate (CAS 141-78-6) Aquatic Acute EC50 3300 mg/l, 48 h Algae Algae EC50 717 mg/l, 48 h Crustacea Crustacea Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Acute Other LC50 Pseudokirchnerella subcapitata > 1000 mg/l, 72 h Aquatic Acute Fish LC50 Oncorhynchus mykiss > 1000 mg/ln-Butyl acetate (CAS 123-86-4) Aquatic Acute EC50 675 mg/l, 72 h Algae Algae Crustacea EC50 Daphnia 73 mg/l, 24 h Fish Fish LC50 62 mg/l, 96 h Zinc oxide (CAS 1314-13-2) Acute 0,137 mg/l, 72 hours EC50 Selenastrum capricornutum (new name Pseudokirchnerella subca Aquatic Acute EC50 Crustacea Daphnia magna 0,413 mg/l, 48 hours Chronic Crustacea **NOEC** Daphnia magna 82 µg/l, 7 days 12.2. Persistence and No data is available on the degradability of any ingredients in the mixture. degradability 12.3. Bioaccumulative potential **Partition coefficient** Dimethyl ether 0,1

n-octanol/water (log Kow)

Ethyl acetate 0,73 n-Butyl acetate 1,78

No data available. 12.4. Mobility in soil

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

> potential. GWP: 1

Substance Global Warming Potential per (Annex IV), Regulation 517/2014/EU on fluorinated greenhouse gases, as

1

Dimethyl ether (CAS 115-10-6)

12.8. Additional information

Estonia Dangerous substances in soil Data

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic

(CAS 64742-82-1)

Chemical pesticides (As the total sum of the active substances) 0,5 mg/kg

Chemical pesticides (As the total sum of the active substances) 20

mg/kg

mg/kg

Zinc oxide (CAS 1314-13-2)

Zinc (Zn) 1000 mg/kg Zinc (Zn) 200 mg/kg Zinc (Zn) 500 mg/kg

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1950

14.2. UN proper shipping AEROSOLS, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Hazard No. (ADR) Not available.

Tunnel restriction code D

14.4. Packing group Not available.

14.3. Transport hazard class(es)

ADR/RID - Classification 5F

code:

14.5. Environmental hazards Yes

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ΙΔΤΔ

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -

14.4. Packing group Not available.

14.5. Environmental hazards Yes **ERG Code** 10L

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable, MARINE POLLUTANT

name

14.3. Transport hazard class(es)
Class 2.1
Subsidiary risk -

14.4. Packing group Not available.

14.5. Environmental hazards

Marine pollutant Yes EmS F-D, S-U

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Maritime transport in bulk Not

according to IMO instruments

Not established.

ADR; IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Ethyl acetate (CAS 141-78-6)

Zinc oxide (CAS 1314-13-2)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Dimethyl ether (CAS 115-10-6)

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic (CAS 64742-82-1)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic (CAS 64742-82-1)

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Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Dimethyl ether (CAS 115-10-6) Ethyl acetate (CAS 141-78-6) n-Butyl acetate (CAS 123-86-4) Zinc oxide (CAS 1314-13-2)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

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. ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany).

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value. CEN: European Committee for Standardization.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

GWP: Global Warming Potential.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG). MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals). RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer). RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value. VOC: Volatile organic compounds.

vPvB: Very persistent and very bioaccumulative.

STEL: Short-term Exposure Limit.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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H411 Toxic to aquatic life with long lasting effects.

Revision information Training information Disclaimer None. Follow training instructions when handling this material.

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