

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM.



Safety Data Sheet dated 21/4/2023, version 2

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

1.1. Product identifier

Mixture identification:

Trade code and name: Q0034 FINE GRAIN LENTICULAR ALUMINUM

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

Pearl base for industrial use.

Only for professional use.

For industrial application. Not for autobody shop use.

1.3. Details of the supplier of the safety data sheet

Company:

Industria Chimica Reggiana I.C.R. Spa

(subject to management and coordination by sole shareholder company PPG Industries Inc.)

Via Gasparini, 7 42124 REGGIO EMILIA Italia

Tel. +39 0522/517803 Fax +39 0522/514384

Distributed in the UK by:

PPG Refinish Distribution

Needham Road, Stowmarket, IP14 2ZR

Tel: 0800 015 1717

Competent person responsible for the safety data sheet:

sdsre@icrsprint.it

1.4. Emergency telephone number

UK :Tel. +39 0522-517803 or NHS 111 - dial 111

Republic of Ireland: Tel. 018092166

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

⚠ Danger, Flam. Liq. 2, Highly flammable liquid and vapour.

⚠ Warning, Skin Irrit. 2, Causes skin irritation.

⚠ Danger, Eye Dam. 1, Causes serious eye damage.

⚠ Warning, Carc. 2, Suspected of causing cancer.

⚠ Warning, Repr. 2, Suspected of damaging fertility or the unborn child.

⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.

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

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

smoking.

P280.D Wear protective gloves and clothing and eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

P370+P378 Gaisro atveju: gesinti CO2 gesintuvu.

P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

None

Contains

n-butyl acetate

toluene

butan-1-ol

4-methylpentan-2-one

maleic anhydride: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

Restricted to professional users.

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 40% - < 50%	n-butyl acetate	Index number: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 REACH No.: 01-2119485493-29	<p>⚠ 2.6/3 Flam. Liq. 3 H226</p> <p>⚠ 3.8/3 STOT SE 3 H336</p> <p>EUH066</p>
>= 5% - < 7%	Xylene	Index number: 601-022-01-6 CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-2119488216-32	<p>⚠ 2.6/3 Flam. Liq. 3 H226</p> <p>⚠ 3.10/1 Asp. Tox. 1 H304</p> <p>⚠ 3.9/2 STOT RE 2 H373</p> <p>⚠ 3.1/4/Dermal Acute Tox. 4 H312</p> <p>⚠ 3.1/4/Inhal Acute Tox. 4 H332</p> <p>⚠ 3.2/2 Skin Irrit. 2 H315</p> <p>⚠ 3.3/2 Eye Irrit. 2 H319</p> <p>⚠ 3.8/3 STOT SE 3 H335</p> <p>4.1/C3 Aquatic Chronic 3 H412</p>
>= 5% - < 7%	toluene	Index number: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH No.: 01-2119471310-51	<p>⚠ 2.6/2 Flam. Liq. 2 H225</p> <p>⚠ 3.7/2 Repr. 2 H361d</p> <p>⚠ 3.10/1 Asp. Tox. 1 H304</p> <p>⚠ 3.9/2 STOT RE 2 H373</p> <p>⚠ 3.2/2 Skin Irrit. 2 H315</p> <p>⚠ 3.8/3 STOT SE 3 H336</p>
>= 5% - < 7%	cellulose nitrate (<12.6 % nitrogen)	Index number: 603-037-01-3 CAS: 9004-70-0	<p>⚠ 2.1/1.1 Expl. 1.1 H201</p>

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

>= 3% - < 5%	butan-1-ol	Index number: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6 REACH No.: 01-2119484630-38	<ul style="list-style-type: none"> ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H335 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.8/3 STOT SE 3 H336 ⚠ 3.1/4/Oral Acute Tox. 4 H302
>= 3% - < 5%	4-methylpentan-2-one	Index number: 606-004-00-4 CAS: 108-10-1 EC: 203-550-1 REACH No.: 01-2119473980-30	<ul style="list-style-type: none"> ⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.6/2 Carc. 2 H351 ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.8/3 STOT SE 3 H336 ⚠ 3.3/2 Eye Irrit. 2 H319 EUH066
>= 1% - < 3%	2-ethoxy-1-methylethyl acetate	Index number: 603-177-00-8 CAS: 54839-24-6 EC: 259-370-9 REACH No.: 01-2119475116-39	<ul style="list-style-type: none"> ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H336
>= 1% - < 3%	2-butoxyethanol; ethylene glycol monobutyl ether	Index number: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0 REACH No.: 01-2119475108-36	<ul style="list-style-type: none"> ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/2 Eye Irrit. 2 H319
>= 1% - < 3%	ethylbenzene	Index number: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4 REACH No.: 01-2119489370-35	<ul style="list-style-type: none"> ⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.9/2 STOT RE 2 H373 4.1/C3 Aquatic Chronic 3 H412
>= 1% - < 3%	Solvent naphtha (petroleum), light arom.	Index number: 649-356-00-4 CAS: 64742-95-6 REACH No.: 01-2119455851-35	<ul style="list-style-type: none"> ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H335 ⚠ 3.8/3 STOT SE 3 H336 ⚠ 4.1/C2 Aquatic Chronic 2 H411 ⚠ 3.10/1 Asp. Tox. 1 H304 EUH066 DECLP (CLP)*
>= 1% - < 3%	2-methylpropan-1-ol	Index number: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 REACH No.: 01-2119484609-23	<ul style="list-style-type: none"> ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H335 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.8/3 STOT SE 3 H336
>= 1% - < 3%	Naphtha (petroleum), hydrotreated heavy	Index number: 649-327-00-6 CAS: 64742-48-9 EC: 265-150-3 REACH No.: 01-2119463258-33	<ul style="list-style-type: none"> ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.8/3 STOT SE 3 H336 EUH066
>= 0.5% - < 1%	2-methoxy-1-methylethyl acetate	Index number: 607-195-00-7 CAS: 108-65-6	<ul style="list-style-type: none"> ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H336

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

		EC: 203-603-9 REACH No.: 01-2119475791-29	
>= 0.5% - < 1%	acetone	Index number: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 REACH No.: 01-2119471330-49	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H336 EUH066
< 0.01%	maleic anhydride	Index number: 607-096-00-9 CAS: 108-31-6 EC: 203-571-6 REACH No.: 01-2119472428-31	⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.9/1 STOT RE 1 H372 ⚠ 3.2/1B Skin Corr. 1B H314 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.4.1/1 Resp. Sens. 1 H334 ⚠ 3.4.2/1A Skin Sens. 1A H317 EUH071

*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

This product is not classified H304 due to its high viscosity.

All component substances of this product have been registered under REACH or are exempt from REACH registration.

Substances in Section 3 not showing REACH registration codes are exempt from registration.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. If irritation persists: Get medical advice/attention.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for at least 15 minutes, then consult a medic immediately.

Protect uninjured eye.

In case of Ingestion:

SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.

Give 1 pint of milk or water to drink. Give repeated drinks of water (one capful) every 10 minutes.

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

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

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

See section 11 for known symptoms and effects.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Gaisro atveju: gesinti CO2 gesintuvu.

Extinguishing media which must not be used for safety reasons:

Do not use water jets. Water may not be effective fire fighting measure, however it can be used to cool closed

containers close to flames as to avoid bursting and exploding.

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke. Carbon oxides.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

See Point 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

n-butyl acetate - CAS: 123-86-4

EU - TWA(8h): 241 mg/m³, 50 ppm - STEL: 723 mg/m³, 150 ppm

ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr

Xylene - CAS: 1330-20-7

Italy - TWA(8h): 221 mg/m³, 50 ppm - STEL(): 442 mg/m³, 100 ppm - Notes: Assorbito attraverso la pelle

ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair

EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin

toluene - CAS: 108-88-3

Italy - TWA(8h): 192 mg/m³, 50 ppm - Notes: Pelle

ACGIH - TWA(8h): 20 ppm - Notes: OTO; A4; BEI - CNS, visual & hearing impair; female repro system eff; pregnancy loss

EU - TWA(8h): 192 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notes: Skin

butan-1-ol - CAS: 71-36-3

EU - TWA(8h): 20 ppm

ACGIH - TWA(8h): 20 ppm - Notes: Eye and URT irr

4-methylpentan-2-one - CAS: 108-10-1

Italy - TWA(8h): 83 mg/m³, 20 ppm - STEL(): 208 mg/m³, 50 ppm

ACGIH - TWA(8h): 20 ppm - STEL: 75 ppm - Notes: A3, BEI - URT irr, dizziness, headache

EU - TWA(8h): 83 mg/m³, 20 ppm - STEL: 208 mg/m³, 50 ppm

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Italy - TWA(8h): 98 mg/m³, 20 ppm - STEL(): 246 mg/m³, 50 ppm - Notes: Pelle

ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr

EU - TWA(8h): 98 mg/m³, 20 ppm - STEL: 246 mg/m³, 50 ppm - Notes: Skin

ethylbenzene - CAS: 100-41-4

Italy - TWA(8h): 442 mg/m³, 100 ppm - STEL(): 884 mg/m³, 200 ppm - Notes: Pelle

ACGIH - TWA(8h): 20 ppm - Notes: OTO; A3, BEI - URT & eye irr; ototoxicity; kidney eff; CNS impair

EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin

Solvent naphtha (petroleum), light arom. - CAS: 64742-95-6

EU - TWA(8h): 100 mg/m³, 19 ppm

2-methylpropan-1-ol - CAS: 78-83-1

ACGIH - TWA(8h): 50 ppm - Notes: Skin and eye irr

Naphtha (petroleum), hydrotreated heavy - CAS: 64742-48-9

EU - TWA(8h): 1200 mg/m³

TLV TWA - 525 mg/m³

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Italy - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: H

EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin

acetone - CAS: 67-64-1

Italy - TWA(8h): 1210 mg/m³, 500 ppm

EU - TWA(8h): 1210 mg/m³, 500 ppm

ACGIH - TWA(8h): 250 ppm - STEL: 500 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

maleic anhydride - CAS: 108-31-6

ACGIH - TWA(8h): 0.01 mg/m³ - Notes: (IFV), DSEN, RSEN, A4 - Resp sens

DNEL Exposure Limit Values

n-butyl acetate - CAS: 123-86-4

Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 960 mg/m³ - Consumer: 859.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 960 mg/m³ - Consumer: 859.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 480 mg/m³ - Consumer: 102.34 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 480 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Xylene - CAS: 1330-20-7

Worker Professional: 442 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 212 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 77 mg/m³ - Consumer: 14.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 212 mg/kg - Consumer: 125 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)

Worker Professional: 221 mg/m³ - Consumer: 65.3 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term (repeated)

Consumer: 12.5 mg/kg/day - Exposure: Human Oral - Frequency: Long Term (repeated)

toluene - CAS: 108-88-3

Worker Professional: 384 mg/m³ - Consumer: 226 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 192 mg/m³ - Consumer: 56.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 8.13 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

butan-1-ol - CAS: 71-36-3

Worker Professional: 310 mg/m³ - Consumer: 55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 3125 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

4-methylpentan-2-one - CAS: 108-10-1

Worker Professional: 83 mg/m³ - Consumer: 14.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 208 mg/m³ - Consumer: 115.2 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 83 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 208 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 11.8 mg/kg - Consumer: 4.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Worker Professional: 75 mg/kg - Consumer: 38 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 98 mg/m³ - Consumer: 49 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 3.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethylbenzene - CAS: 100-41-4

Worker Professional: 293 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

- Worker Professional: 77 mg/m³ - Consumer: 15 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- 2-methylpropan-1-ol - CAS: 78-83-1
Worker Professional: 310 mg/m³ - Consumer: 55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- Naphtha (petroleum), hydrotreated heavy - CAS: 64742-48-9
Worker Professional: 1500 mg/kg - Consumer: 900 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 300 mg/kg - Consumer: 300 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 300 mg/kg - Frequency: Long Term, systemic effects
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Worker Professional: 153.5 mg/kg - Consumer: 320 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Worker Professional: 275 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 36 mg/kg/day - Exposure: Human Oral - Frequency: Long Term (repeated)
Worker Professional: 550 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 796 mg/kg/day - Consumer: 320 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)
- acetone - CAS: 67-64-1
Worker Professional: 186 mg/kg - Consumer: 62 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 2420 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 1210 mg/m³ - Consumer: 200 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 62 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- PNEC Exposure Limit Values**
- n-butyl acetate - CAS: 123-86-4
Target: STP - Value: 35.6 mg/l
Target: Fresh Water - Value: 0.18 mg/l
Target: Marine water - Value: 0.01 mg/l
Target: Intermittent emissions - Value: 0.36 mg/l
Target: Freshwater sediments - Value: 0.98 mg/kg
Target: Marine water sediments - Value: 0.09 mg/kg
Target: Soil - Value: 0.09 mg/kg
- Xylene - CAS: 1330-20-7
Target: Purification plant - Value: 6.58 mg/l
Target: Marine water - Value: 0.32 mg/l
Target: Intermittent emissions - Value: 0.32 mg/l
Target: Freshwater sediments - Value: 12.46 mg/kg
Target: Marine water sediments - Value: 12.46 mg/kg
Target: Soil - Value: 2.31 mg/kg
Target: Fresh Water - Value: 0.32 mg/l
- toluene - CAS: 108-88-3
Target: Purification plant - Value: 13.61 mg/l
Target: Freshwater sediments - Value: 16.39 mg/kg
Target: Marine water sediments - Value: 16.39 mg/kg
Target: Soil - Value: 2.89 mg/kg
Target: Fresh Water - Value: 0.68 mg/l
Target: Marine water - Value: 0.68 mg/l
Target: Intermittent emissions - Value: 0.68 mg/l
- butan-1-ol - CAS: 71-36-3

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

- Target: Marine water sediments - Value: 0.0178 mg/kg
Target: Soil - Value: 0.015 mg/kg
Target: Fresh Water - Value: 0.082 mg/l
Target: Marine water - Value: 0.0082 mg/l
Target: Intermittent emissions - Value: 2.25 mg/l
Target: Freshwater sediments - Value: 0.178 mg/kg
- 4-methylpentan-2-one - CAS: 108-10-1
Target: Soil - Value: 1.3 mg/kg
Target: Freshwater sediments - Value: 8.27 mg/kg
Target: Marine water sediments - Value: 0.83 mg/kg
Target: Fresh Water - Value: 0.6 mg/l
Target: Marine water - Value: 0.06 mg/l
Target: Intermittent emissions - Value: 1.5 mg/l
Target: Purification plant - Value: 27.5 mg/l
- 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Target: Purification plant - Value: 463 mg/l
Target: Freshwater sediments - Value: 34.6 mg/kg
Target: Marine water sediments - Value: 3.46 mg/kg
Target: Soil - Value: 3.13 mg/kg
Target: Intermittent emissions - Value: 9.1 mg/l
- ethylbenzene - CAS: 100-41-4
Target: Fresh Water - Value: 0.1 mg/l
Target: Marine water - Value: 0.01 mg/l
Target: Intermittent emissions - Value: 0.1 mg/l
Target: Freshwater sediments - Value: 13.7 mg/kg
Target: Soil - Value: 2.68 mg/kg
Target: Purification plant - Value: 9.6 mg/l
Target: Oral - Value: 0.02 mg/kg
- 2-methylpropan-1-ol - CAS: 78-83-1
Target: Marine water sediments - Value: 0.152 mg/kg
Target: Soil - Value: 0.0699 mg/kg
Target: Fresh Water - Value: 0.4 mg/l
Target: Marine water - Value: 0.04 mg/l
Target: Intermittent emissions - Value: 11 mg/l
Target: Purification plant - Value: 10 mg/l
Target: Freshwater sediments - Value: 1.52 mg/kg
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Target: Intermittent emissions - Value: 100 mg/l
Target: Freshwater sediments - Value: 3.29 mg/kg
Target: Marine water sediments - Value: 0.329 mg/kg
Target: Soil - Value: 0.29 mg/kg
Target: Fresh Water - Value: 0.635 mg/l
Target: Marine water - Value: 0.0635 mg/l
Target: 14 - Value: 6.35 mg/l
Target: Purification plant - Value: 100 mg/l
- acetone - CAS: 67-64-1
Target: Purification plant - Value: 100 mg/l
Target: Intermittent emissions - Value: 21 mg/l
Target: Freshwater sediments - Value: 30.4 mg/kg
Target: Marine water sediments - Value: 3.04 mg/kg
Target: Soil - Value: 33.3 mg/kg
Target: Fresh Water - Value: 10.6 mg/kg
Target: Marine water - Value: 1.06 mg/l
- Biological Exposure Index
Xylene - CAS: 1330-20-7
Value: 1.5 g/g - medium: Urine - Biological Indicator: Creatinine in urine - Sampling
Period: End of turn
- 4-methylpentan-2-one - CAS: 108-10-1
Value: 1 mg/L - medium: Urine - Biological Indicator: Ketone (s) - Sampling Period: End of

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

turn
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Value: 200 mg/g creatinine - medium: Urine - Biological Indicator: Creatinine in urine -
Sampling Period: End of turn
ethylbenzene - CAS: 100-41-4
Value: 0.15 g/g - medium: Urine - Biological Indicator: Creatinine in urine - Sampling
Period: End of turn
acetone - CAS: 67-64-1
Value: 50 mg/L - medium: Urine - Biological Indicator: Acetone in urine - Sampling Period:
End of turn

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

Wear safety clothing that ensure full skin protection in accordance to EN 14605 Type 4 in case of spills or spray (e.g. Tyrek). Please note: safety clothing must be changed immediately if it comes in contact with product.

Protection for hands:

Use protective gloves that provides comprehensive protection, EN374 Class 3 (B-F-I).
Permeation time > 60 minutes; 0.4 mm thickness.

Respiratory protection:

Use adequate protective respiratory devices, using Filter "A" (Brown colour) for organic gas and vapors with boiling points over 65°C.

Thermal Hazards:

None

Environmental exposure controls:

Emissions from ventilation systems or from work processes must be check as to ensure compliance to environmental protection legislation. In some cases the addition of vapour scrubbers, filters or other system modification may be necessary in order to reduce emissions to acceptable levels.

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance and colour:	Liquid metallizzato	--	--
Odour:	Typical of solvent	--	--
Odour threshold:	N.D.	--	--
pH:	Not Relevant	--	--
Melting point / freezing point:	N.D.	--	--
Initial boiling point and boiling range:	111 °C	--	--
Flash point:	6 °C	--	--
Evaporation rate:	N.D.	--	--
Solid/gas flammability:	N.A.	--	--

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

Upper/lower flammability or explosive limits:	N.D.	--	--
Vapour pressure:	6.5 - 9.5 hPa	--	--
Vapour density:	N.D.	--	--
Relative density:	0.960 ±0.050 g/cm ³	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.D.	--	--
Partition coefficient (n-octanol/water):		--	--
Auto-ignition temperature:	415 °C	--	--
Decomposition temperature:	N.D.	--	--
Viscosity:	>20.5 mm ² /s (40 °C)	--	--
Explosive properties:	N.D.	--	--
Oxidizing properties:	N.D.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under recommended use and storage conditions (see point 7).

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid accumulating electrostatic charge.

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

n-butyl acetate - CAS: 123-86-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 6400 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 21.1 mg/l - Duration: 4h

Xylene - CAS: 1330-20-7

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 6700 ppm - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 5627 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

toluene - CAS: 108-88-3

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Mouse = 5320 mg/l

Test: LD50 - Route: Oral - Species: Rat = 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 12124 mg/kg

cellulose nitrate (<12.6 % nitrogen) - CAS: 9004-70-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

butan-1-ol - CAS: 71-36-3

a) acute toxicity:

Test: LC50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 5 mg/l - Duration: 4h

4-methylpentan-2-one - CAS: 108-10-1

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Mouse = 23.29 g/m³

ATE - Inhalation (Vapours) 11 mg/l

Test: LD50 - Route: Oral - Species: Rat = 2080 mg/kg

ATE - Inhalation (Vapours) 11 mg/l

Test: LD50 - Route: Skin - Species: Rat = 2000 g/kg

ATE - Inhalation (Vapours) 11 mg/l

i) STOT-repeated exposure:

Test: NOAEL(C) - Route: Inhalation - Species: Rat > 250 mg/kg

2-ethoxy-1-methylethyl acetate - CAS: 54839-24-6

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 6.99 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 13.42 ml/kg

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 3 mg/l - Duration: 4h

ATE - Oral 1200 mg/kg bw

Test: LD50 - Route: Oral - Species: Rat = 200-2000 mg/kg

ATE - Oral 1200 mg/kg bw

Test: LD50 - Route: Skin - Species: Rat = 400-2000 mg/kg

ATE - Oral 1200 mg/kg bw

c) serious eye damage/irritation:

Test: Eye Irritant Positive

ethylbenzene - CAS: 100-41-4

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Mouse = 35500 mg/m³

Test: LC50 - Route: Inhalation - Species: Rat = 55000 mg/m³

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg
Solvent naphtha (petroleum), light arom. - CAS: 64742-95-6

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 6193 mg/m³

Test: LD50 - Route: Oral - Species: Rat = 3592 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg

2-methylpropan-1-ol - CAS: 78-83-1

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 18.18 mg/l - Duration: 6H

Test: LD50 - Route: Oral - Species: Rat > 2830 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin Positive

c) serious eye damage/irritation:

Test: Eye Corrosive Positive

Naphtha (petroleum), hydrotreated heavy - CAS: 64742-48-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 5000 mg/l

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 2000 ppm - Duration: 3h

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/l

acetone - CAS: 67-64-1

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 21.09 ppm - Duration: 8h

Test: LD50 - Route: Oral - Species: Rat = 5800 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 20 ml/kg

b) skin corrosion/irritation:

Test: Eye Irritant Positive

maleic anhydride - CAS: 108-31-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1090 mg/kg bw

Test: LD50 - Route: Skin - Species: Rabbit = 2620 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 4.35 mg/l - Duration: 1h

n-butyl acetate - CAS: 123-86-4

Components of the product can be absorbed by the body by inhalation. Main symptoms: Dizziness, narcosis, Cough, nausea, vomiting, headache, unconsciousness, shortness of breath. Repeated exposure can cause skin dryness and cracking.

Xylene - CAS: 1330-20-7

Inhalation: Harmful if inhaled. Very high concentrations of xylene lead to the progressive inhibition of the central nervous system (CNS), followed by coma, respiratory weakness, and finally absence of cerebral blood flow and death. High concentrations cause coma and respiratory weakening, destabilize the function of the kidneys and lead to liver damage. At low concentrations, irritation of the eyes, nasopharynx, illness, irritation, slow reaction times and reduced short-term memory occur. Vapors of xylene can cause dizziness, headache, nausea, mental confusion.

Ingestion: In the event of ingestion of xylene, the injured person has a burning sensation and stomach ache, in case of aspiration there is a danger of chemical pneumonitis and pulmonary edema. Skin Contact: May be harmful if absorbed through the skin. Causes skin irritation. Contact with eyes: Vapors of xylene and xylene in liquid form irritate the eyes and membranes.

Solvent naphtha (petroleum), light arom. - CAS: 64742-95-6

ACUTE: Inhalation: Vapor concentration above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may other nervous system effects.

Skin contact: Low order of toxicity. Frequent or prolonged contact may defat and dry the

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

skin, leading to discomfort and dermatitis.

Eye contact: Will cause eye discomfort, but will not injure eye tissue.

Ingestion: Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema. Minimal toxicity.

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 648 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96

Xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae = 4.36 mg/l - Duration h: 73

Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96

Endpoint: NOEC - Species: Algae = 0.44 mg/l - Duration h: 73

Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Duration h: 504

Endpoint: NOEC - Species: Fish = 1.3 mg/l - Duration h: 1344

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 5.5 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 3.78 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 10 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia < 10 mg/l

cellulose nitrate (<12.6 % nitrogen) - CAS: 9004-70-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 5000 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 10000 mg/l - Duration h: 48

Endpoint: LC50 - Species: Algae > 10000 mg/l - Duration h: 78

butan-1-ol - CAS: 71-36-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 225 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 18 mg/l - Duration h: 504

Endpoint: LC50 - Species: Fish = 1376 mg/l - Duration h: 96

4-methylpentan-2-one - CAS: 108-10-1

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 200 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish > 179 mg/l - Duration h: 96

Endpoint: NOEC - Species: Daphnia = 30 mg/l

Endpoint: NOEC - Species: Algae > 146 mg/l

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 911 mg/l - Duration h: 72

Endpoint: EC50 - Species: Fish = 1474 mg/l - Duration h: 96

Solvent naphtha (petroleum), light arom. - CAS: 64742-95-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 2.9 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 9.2 mg/l

Endpoint: EC50 - Species: Algae = 1 mg/l - Notes: NOEC

2-methylpropan-1-ol - CAS: 78-83-1

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 1799 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 1430 mg/l - Duration h: 96

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 96

Endpoint: NOEC - Species: Fish = 47.5 mg/l - Duration h: 336

Endpoint: NOEC - Species: Daphnia > 100 mg/l - Duration h: 504

Endpoint: NOEC - Species: Algae > 1000 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish = 100 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 408 mg/l - Duration h: 48

acetone - CAS: 67-64-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 8120 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 530 mg/l - Duration h: 192

Endpoint: EC50 - Species: Daphnia = 8800 mg/l - Duration h: 48

maleic anhydride - CAS: 108-31-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 75 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 42.81 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 74.35 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 10 mg/l - Duration h: 504

12.2. Persistence and degradability

Non-readily biodegradable

12.3. Bioaccumulative potential

Not bioaccumulative

12.4. Mobility in soil

Do not mix with waste water, rain or surface water. Floats on water, evaporates from liquid and solid surfaces but a significant amount may penetrate and pollute water table.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The empty containers must be considered special waste materials to take to dump of type 2B. If previously cleansed, they can be admitted in first class dumps.

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. DO NOT discharge into sewers, watercourses, ponds, canals or ditches. Empty product containers must be completely drained and stored safely until appropriately processed or disposed. Empty containers must be recycled, recovered or disposed of by a qualified and authorized company operating in compliance with current recycling, recovery and disposal regulations. It is advisable

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

to provide the desposal company with all safety information of the material contained in the empty packaging. DO NOT pressurize, DO NOT cut, DO NOT weld, DO NOT puncture, DO NOT crush, DO NOT expose empty containers to heat, flames, sparks, electrostatic discharge or other sources of ignition.

SECTION 14: Transport information



Limited quantities, not subject to ADR norms for internal packaging of up to 5 litres and maximum packaging of 30kg.

14.1. UN number

ADR-UN Number: 1263
IATA-UN Number: 1263
IMDG-UN Number: 1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT
IATA-Shipping Name: PAINT
IMDG-Shipping Name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3
ADR-Label: 3
ADR - Hazard identification number: 33
IATA-Class: 3
IATA-Label: 3
IMDG-Class: 3
IMDG-Class: 3.2

14.4. Packing group

ADR-Packing Group: II
IATA-Packing group: II
IMDG-Packing group: II

14.5. Environmental hazards

ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No

14.6. Special precautions for user

ADR-Subsidiary hazards: -
ADR-S.P.: 163 367 640C 650
ADR-Transport category (Tunnel restriction code): 2 (D/E)
IATA-Passenger Aircraft: 353
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 364
IATA-S.P.: A3 A72 A192
IATA-ERG: 3L
IMDG-Page: 3268
IMDG-EmS: F-E , S-E
IMDG-Subsidiary hazards: -
IMDG-MFAG: 310
IMDG-Stowage and handling: Category B
IMDG-Segregation: -

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

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3
Restriction 40

Restrictions related to the substances contained:

Restriction 28
Restriction 29
Restriction 48
Restriction 70
Restriction 75

Volatile Organic compounds - VOCs = 722.65 g/Kg = 693.75 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.50

Dry weight (% wt): 27.73

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1
Product belongs to category: P5c

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.
H304 May be fatal if swallowed and enters airways.
H373 May cause damage to organs through prolonged or repeated exposure.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
H225 Highly flammable liquid and vapour.
H361d Suspected of damaging the unborn child.
H201 Explosive; mass explosion hazard.
H318 Causes serious eye damage.
H302 Harmful if swallowed.
H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.
H372 Causes damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.
H314 Causes severe skin burns and eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
EUH071 Corrosive to the respiratory tract.

Hazard class and hazard category	Code	Description
Expl. 1.1	2.1/1.1	Explosive, Division 1.1
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Resp. Sens. 1	3.4.1/1	Respiratory Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Carc. 2	3.6/2	Carcinogenicity, Category 2
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 4: First aid measures
SECTION 5: Firefighting measures
SECTION 6: Accidental release measures
SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 10: Stability and reactivity
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information
SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Carc. 2, H351	Calculation method
Repr. 2, H361	Calculation method
STOT SE 3, H336	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
CAS: Chemical Abstracts Service (division of the American Chemical

Safety Data Sheet

Q0034 FINE GRAIN LENTICULAR ALUMINUM

	Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not available
N.D.:	Not determined.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average