

SAFETY DATA SHEET: **BD38 LIQUID GRAVITY**

REVISION DATE 24.07.2015

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1.0 Identification of the product and company

- 1.1 Name: LIQUID GRAVITY
- 1.2 Company Identification: Deluxe Materials Ltd
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2.0 Identification of Hazards

- 2.1 Connected with the product itself:
Deluxe Materials Limited currently knows of no risk.
- 2.2 Connected with the use of the product:
- 2.2.1 Intoxication:
Health risks are linked to the exposure to dust. Dust is produced by the Fragmentation of the abrasives and particles removed from the blasted parts.
- 2.2.1 Fire – Explosion:
Particles liable to produce a fire hazard are the following:
Metal dust, plastic dust, dust produced when blasting metals coated with paint, rubber etc...

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2.2.3 Other risks:

a) The projection of abrasive exposes the operator to possible skin and eye lesions if no protection is worn.

b) Risk of falling due to presence of abrasives on the floor.

3.0 **Composition**

We mention below the substance with a concentration higher than 0.1% weight by weight:

Substances	Chemical Symbol	EINECS No	CAS No	Labeling according To UE Regulations
Aluminum	Al	231-072-3	7429-90-5	F:R10/15
Carbon	C	231-153-3	7440-44-0	
Chromium	Cr	231-157-5	7440-47-3	
Copper	Cu	231-159-6	7440-50-8	
Iron	Fe	231-096-4	7439-89-6	
Magnesium	Mn	231-105-1	7439-96-5	
Nickel	Ni	231-111-4	7440-02-0	Xn:R40/43
Silicium	Si	231-130-8	7440-21-3	

All chemical elements in our abrasives come in an alloyed form and not in a free form.

4.0 **First Aid**

In the event of contact with the eyes:

- Do not rub.
- Rinse thoroughly with water.
- Consult an ophthalmologist if the irritation persists.
- The user must determine for himself what appropriate measures should be taken, depending on the type of dust produced by his industrial process.

5.0 **Fire Fighting Measures**

Extinction Method:

- In the event of Class A fires (packaging): ABC powder, water, foam.
 - In the event of Class D fires (metal fire): powders, CO2
- Avoid scattering fine particles close to an ignition source.

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6.0 **Accidental release measures**

Quickly clean the area with a vacuum cleaner or a magnetic brush to reduce the risk of failing.

7.0 **Handling and Storage**

7.1 Prevention of worker exposure:

- Blasting can be carried out in automatic booths, with the operator outside. Whenever technically possible, this solution is always preferable to having the operator inside the booth.
- Ventilation arrangements must be such that the booth environment is protected and the booth clean as quickly as possible after blasting operations cease.
- During air blasting operations, the operator must wear personal protective equipment.

7.2 Prevention of fire and explosion risk:

When there is a possible risk of fire or explosion, special precautions must be taken in the design and construction of the blasting installation. Furthermore, specific procedures must be followed during installation and maintenance operations.

7.3 Precautions when handling the product:

Not applicable.

7.4 Recommendations for use:

- Metal Spraying: blasting and metal spraying operations must not be carried out in the same booth, as this increases the risk of fire.
- Lighting: lighting for blasting booths must be carefully planned. To check the quality of blasting, the operator must be able to make an accurate visual assessment of the efficiency of the work carried out.

7.5 Storage:

- In a dry place
- Deluxe Materials Limited knows of no incompatible substance.
- It is advisable to keep the product in its original Deluxe Materials Limited packaging, which is designed to provide water resistance.

8.0 **Exposure controls/Personal protection**

8.1 Exposure control:

The user must know the exact nature of the dust produced during the industrial process for which the abrasive is used, and must take the necessary measures to protect workers. A metrological study is necessary for blasted parts that may contain any substance with an exposure limit.

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8.2 Person protective equipment:

For lack of collective protective equipment during air blasting, the plant manager must provide each exposed worker with the following:

- A hood with its own air supply.
- Overalls with draw strings at the neck, wrists and ankles.
- Safety shoes.
- Ear protection
- Gloves

9.0 **Physical and Chemical properties**

Physical state:	Solid
Colour:	Grey-Black
Odour:	None
Density:	3-5 t/m ³
Flash Point:	not applicable
Explosiveness:	not applicable
Melting Point:	~ 1500°C
Solubility:	insoluble in water

10.0 **Stability and reactivity**

- Known decomposition product: None
- Stability during storage: No safety risk but oxidation and aggregation in the presence of moisture.
- Dangerous reaction: iron oxide dust mixed with some metal dusts can produce an aluminothermic reaction.

11.0 **Toxicological information**

- Known severe toxicity: None
- Known local effects: None

12.0 **Ecological Information**

Lixiviation tests have been carried out on abrasives samples. The analytical results recorded do not show the presence of specific pollutants or toxins.

13.0 **Disposal considerations**

- Operating Waste: dust and used abrasives may contain pollutants resulting from the industrial process. Each user must study the problem of waste in relation to the specific activity, in contact with specialized organizations.
- Packaging: Deluxe Materials Limited packaging is completely recyclable.

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14.0 **Transport Information**

- International regulations (ADR,IMDG,OACI): not concerned
- Transport outside storage areas: protect against moisture
- Weight: for pallets and drums: from 500kg-1500kg
for big bags: from 1000kg-2000kg

15.0 **Regulatory Information**

Deluxe Materials Limited are subject to National and European laws in effect.

- According to existing European Regulations No 1999/45CE and No 67/548/CEE, steel abrasives are not considered as dangerous preparations.
- According to European Regulation No 1907/2006/CE (REACH), steel abrasives are considered as articles.

The substance contained in steel abrasive (in the form of alloys), are not intended to be released intentionally under normal or reasonable foreseeable conditions of use.

In accordance with articles 3.3,7.1,7.2,7.3,33,57,59 and all related documents to the present regulation, and in order to exclude all possibility of human and environmental exposure to these substances under normal and reasonable foreseeable conditions of use including waste elimination, Deluxe Materials Ltd complies this technical data sheet containing appropriate instructions.

Consequently, Deluxe Materials Ltd considers that the substances contained in the steel abrasives are not subject to registration according to the existing REACH regulation.

16.0 **Other**

The information contained in this file is based on level of knowledge to date. Consequently, any person or organization wishing to make any comments should inform Deluxe Materials Limited. Moreover, the information provided is not exhaustive. The user must therefore be fully acquainted with all applicable regulation.