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

1.1 Product identifier **Flitz Metal, Plastic & Fiberglass Polish**

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

1.2.1 Relevant uses

Polishing agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Flitz International, Ltd.
821 Mohr Avenue
Waterford, WI 53185
Phone 262-534-5898
Fax 262-534-2991
E-mail info@flitz.com

Address enquiries to

Technical information info@flitz.com

Safety Data Sheet info@flitz.com

1.4 Emergency telephone number 262-534-5898

Advisory body

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

STOT RE 1: H372 causes damage to organs (central nervous system) through prolonged or repeated exposure if inhaled.
Aquatic chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EG) No 1272/2008 (GLP).

Hazard pictograms

Signal word
Contains: DANGER

Hydrocarbons, G10-G13, n-alkanes, isoalkanes. cyclics, aromalies (2-25%)

Hazard statements

H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P270 Do no eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P314 Get medical advice / attention if you feel unwell.
P501 Dispose of contents /container to in accordance with local/ regional/ national/ international regulation.

Special labelling

2.3 Other hazards

EUH066 Repeated exposure may cause skin dryness or cracking.

Physico-chemical hazards Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Human health dangers If swallowed or in the event of vomiting, risk of product entering the lungs.

Environmental hazards Does not contain any PBT or PvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition /Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
10-30	Hydrocarbons, G10-G13, n-alkanes, isoalkanes, cyclics, aromalics (2-25%)
	CAS: 64742-82-1, EINECS/ELINGS: 919-164-8, Reg-No.: 01-2119473977-17-XXXX
	GHS/GLP: Asp. Tox. 1: H304 - Aquatic Chronic 3: H412 - STOT RE 1: H372
10 - 20	Hydrocarbons , G11- G14, n-alkanes, isoalkanes, cyclics, < 2% aromalies
	GAS: 64742-47-8, EINEGCS/ELINGS: 926-141-6, EU-INDEX: 649-422-00-2, Reg-No.: 01-2119456620-43-XXXX
	GHS/GLP: Asp. Tox. 1: H304
1 - 3	Hydrocarbons, C9-C12, n-alkanes, isoalkanes,cyclics, aromatics (2-25%)
	CAS: 64742-82-1, EINECS/ELINGS: 919-446-0, Reg-No.: 01-2119458049-33-XXXX
	GHS/GLP: Asp. Tox. 1: H304 - Aquatic Chronic 2: H411- Flam. Liq. 3: H226- STOT RE 1: H372- STOT SE 3: H336
1 - 3	Ammonia 25%
	CAS: 1336-21-6, EINEGS/ELINGS: 215-647-6, EU-INDEX: 007-001-01-2, Reg-No.: 01-2119488876-14-XXXX
	GHS/GLP: Skin Corr. 1B: H314- STOT SE 3: H335 - Aquatic Acute 1: H400

Comment on component parts Substances of Very High Concern - SVHG: substances are not contained or are below 0.1%.
For full text of H-statements: see SEGTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take *oft* contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion Seek medical advice immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Headache
Tiredness
Shortness of breath
Unconsciousness

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam.
Dry powder.
Water spray jet.
Carbon dioxide.

Extinguishing media that must not be used Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Keep away from all sources of ignition.
High risk of slipping due to leakage/spillage of product.
Use personal protective clothing.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Provide suitable vacuuming at the processing area.
Keep only in original container.

Keep away from all sources of ignition.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.
Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.
Prevent penetration into the ground.

Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.

Protect from heal/overheating.
Keep container in a well-ventilated place.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

lsECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Aluminiumoxide
CAS: 1344-28-1. EINECS/ELINCS: 215-691-6, Reg-No.: 01-2119529248-35-XXXX
long-Term exposure: 10 mg/m³, inhalable dust (respirable dust: 4mg/m³)
Hydrocarbons. C1O-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
CAS 64742-82-1, EINECS/ELINCS: 919-164-8, Reg-No.: 01-2119473977-17-XXXX
Long-term exposure: 500 mg/m³
Hydrocarbons. C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
CAS: 64742-47-8, EINECS/ELINCS: 926-141-6, EU-INDEX: 649-422-00-2, Reg-No.: 01-2119456620-43-XXXX
Long-term exposure: 1200 mg/m³
Ammonia 25%
CAS: 1336-21-6, EINECS/ELINCS: 215-647-6, EU-INDEX: 007-001-01-2, Reg-No.: 01-2119488876-14-XXXX
Long-term exposure: 25 ppm, 18 mg/m³. IOELV, CD156
Hydrocarbons, C9-C12. n-alkanes. isoalkanes, cyclics. aromatics (2-25%)
CAS: 64742-82-1. EINECS/ELINCS: 919-446-0. Reg-No.: 01-2119458049-33-XXXX
Long-term exposure: 00 mg/m ³

DNEL

Substance
Hydrocarbons. C9-C12, n-alkane, isoalkanes, cycles, aromatics (2-25%), CAS: 64742-82-1
Industrial, dermal, Long-term - systemic effects: 44 mg/kg bw/day.
Industrial. inhalative. Long-term - systemic effects: 330 mg/m³.
general population, oral, Long-term - systemic effects: 26 mg/kg bw/day.
general population, dermal, Long-term- systemic effects: 26 mg/kg bw/day.
general population, inhalative, Long-term - systemce effects: 71 mg/m³.
Ammonia 25%, CAS: 1336-21-6
Industrial. inhalative. Long-term- systemic effects: 14 mg/m³ (NH3).
Industrial, inhalative, acute - systemic effects: 38 mg/m³ (NH3).
Industrial. dermal, acute - systemic effects: 6,8 mg/kg (NH3).
Industrial, oral, Acute - systemic effects: 6,8 mg/kg bw/d (NH3).

PNEC

Substance
Ammonia 25%, CAS: 1336-21-6
seawater. 0,011 mg/1.
freshwater, 0,0011 mg/1.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,7mm Butyl rubber, >120 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing.
Other	Do not inhale vapours. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	blue
Odor	characteristic
Odor threshold	not required
pH-value	9-10
pH-value [1%]	not determined
Boiling point rCJ	not determined
Flash point ["C]	>61
Flammability (solid, gas) [°C]	> 200
Lower explosion limit	0,6 Vol.%
Upper explosion limit	7,0 Vol.%
Oxidising properlies	no
Vapour pressure/gas pressure [kPa]	not determined
Density [glml]	1,17 (20 °C / 68,0 °F)
Bulk density [kglm³ı	not applicable
Solubility in water	partially soluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	>20,5 *mm²1s* (40°C)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.
Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.4 Conditions to avoid

Heating

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, inhalative, >20 mg/1.
ATE-mix, dermal, >2000 mg/kg bw.
ATE-mix, oral, >2000 mg/kg bw.

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-47-8
LD50, dermal, Rabbi!: > 5000 mg/kg (Li!.).
LD50, oral, Rat: > 5000 mg/kg (Li!.).
Hydrocarbons, G10-G13, n-alkanes, isoalkanes, cyclics, aromalics (2-25%), CAS: 64742-82-1
LD50, dermal, Rabbi!: >2920 mg/kg (OECD 402).
LD50, oral, Rat: >5000 mg/kg (OEGD 401).
LG50, inhalative, Rat: >13.1 mg/1 (4h) (OECD 403).
Hydrocarbons, G9-G12, n-alkanes, isoalkanes,cyclics, aromalics (2-25%), CAS: 64742-82-1
LD50, dermal, Rat: >2000 mg/kg bw.
LD50, oral, Rat: >2000 mg/kg bw.
Ammonia 25%, GAS: 1336-21-6
LD50, inhalative, mouse: 91 mg/kg (NH3).
LD50, oral, Rat: 350 mg/kg (NH3).
LG50, inhalative, Rat: 2000 mg/1 (NH3).
LDLo, oral, Human: 43 mg/kg (NH3).

Serious eye damage/irritation	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Toxicological data of complete product are not available. Does not contain a relevant substance !hat meets the classifcation criteria.
Specific target organ toxicity — single exposure	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Toxicological data of complete product are not available May cause damage to the central nervous system through prolonged or repeated exposure through inhale.
Mutagenicity	Toxicological data of complete product are not available Does not contain a relevant substance !hat meets the classification criteria.
Reproduction toxicity	Toxicological data of complete product are not available Does not contain a relevant substance !hat meets the classification criteria.
Carcinogenicity	Toxicological data of complete product are not available Does not contain a relevant substance that meets the classification criteria.
Aspiration hazard	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
General remarks	The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-47-8
EL50, (72h), Pseudokirchneriella subcapitata: >1000 mg/1.
EL50, (24h), Daphnia magna: >1000 mg/1.
LL50, (96h), Oncorhynchus mykiss: >1000 mg/1.
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), CAS: 64742-82-1
EL50, (48h), Daphnia magna: 10-22 mg/1.
EL50, (72h), Pseudokirchneriella subcapitata: 10-100 mg/1.
NOEC, (21d), Daphnia magna: 0.097 mg/1.
NOELR, (72h), Pseudokirchneriella subcapitata: 3 mg/1.
LL50, (96h), Oncorhynchus mykiss: 10-100 mg/1.
LOEC, (21d), Daphnia magna: 0.203 mg/1.
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), CAS: 64742-82-1
LC50, (96h), fish: 1 - 10 mg/L.
EC50, (72h), Bacteria: 1 -10 mg/L.
EC50, (72h), Algae: 1 - 10 mg/L.
EC50, (48h), Crustacea: 1 - 10 mg/L.
EL50, (72h), Pseudokirchneriella subcapitata: 4,1 mg/1.
LL50, (96h), Oncorhynehus mykiss: 10- 100 mg/1.
Ammonia 25%, CAS: 1336-21-6
LC50, (96h), Salmo gairdneri: 0,53 mg/1.
LC50, (96h), fish: 0,89 mg/1 (NH3).
LC50, (96h), Pimephales promelas: >0,7 mg/1.
LC50, (96h), Lepomis macroehirus: >0,2 mg/1.
LC50, (96h), Cyprinus carpio: 1,1 mg/1.
LC50, (96h), Salmo gairdneri: >0,1 mg/1.
LC50, (48h), Daphnia magna: 25,4 mg/1.
LC50, (96h), Daphnia magna: 0,101 mg/1 (NH3).

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product	
	Dispose of as hazardous waste. Disposal in an incineration plant in accordance with the regulations of the local authorities.
Waste no. (recommended)	160305*
Contaminated packaging	
	Packaging that cannot be cleaned should be disposed of as for product. Uncontaminated packaging may be taken for recycling.
Waste no. (recommended)	150110* 150102

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS
Inland navigation (ADN)	NO DANGEROUS GOODS
Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADRIRID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS	1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2016).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (1999/13/CE)	37%

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Hazard statements

(SECTION 03)

H400 Very toxic to aquatic life.
H335 May cause respiratory irritation.
H314 Causes severe skin burns and *eye* damage.
H336 May cause drowsiness or dizziness.
H226 Flammable liquid and vapour.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H372 Causes damage to organs (Central nervous system) through prolonged or repeated sure if inhaled.
H304 May be fatal if swallowed and enters airways.

16.2 Abbreviations and acronyms:

ADR = Accord europeen relatif au transport international des marchandises Dangereuses par Route
RIO = Reglement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord europeen relatif au transport international des marchandises dangereuses par voie de navigation interieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA =International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemic Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA = Threshold limit value- time-weighted average
TLV®STEL = Threshold limit value- short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

STOT RE 1: H372 causes darnage to organs (Central nervous system) through prolonged or repeated exposure if inhaled. (Calculation method)
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

SECTION 2 been added: P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

SECTION 2 been added: STOT RE 1

SECTION 2 been added: DANGER

SECTION 2 been added: H372 causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

SECTION 2 been added: P101 If medical advice is needed, have product container or label at hand.

SECTION 2 been added: P102 Keep out of reach of children.

SECTION 2 been added: P273 Avoid release to the environment.

SECTION 2 been added: P270 Do no eat, drink or smoke when using this product.

SECTION 2 been added: P314 Get medical advice / attention if you feel unwell.

SECTION 2 been added: exclamation mark

SECTION 4 been added: Unconsciousness

SECTION 4 been added: Tiredness

SECTION 4 been added: Headache

SECTION 4 been added: Shortness of breath

SECTION 11 been added: Does not contain a relevant substance that meets the classification criteria.

SECTION 11 deleted: Does not contain a relevant substance !hat meets the classification criteria.

SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.

SECTION 11 been added: May cause damage to the central nervous system through prolonged or repeated exposure through inhale.

SECTION 16 been added: Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

SECTION 16 deleted:

SECTION 16 been added: