SAFETY DATA SHEET LM/V601 - 20 HOUR CLEAR GOLDSIZE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier	
Product name	LM/V601 - 20 HOUR CLEAR GOLDSIZE
Product No.	LM/V601/20
1.2. Relevant identified uses of th	e substance or mixture and uses advised against
Identified uses	Gilding Size
1.3. Details of the supplier of the	safety data sheet
Supplier	WRIGHTS OF LYMM LTD. T/A C.F. STONEHOUSE & SON WARRINGTON LANE LYMM CHESHIRE WA13 0SA 01925 752226 01925 757569 info@wrightsoflymm.co.uk
Contact Person	Sales Department - 9.00 to 17.00 hrs Mon - Fri. as above

<u>1.4. Emergency telephone number</u>

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

		Physical and Chemical Hazards	Flam. Liq. 3 - H226
		Human health	EUH066;STOT SE 3 - H336
		Environment	Aquatic Chronic 2 - H411
Classific	ation (1999/45/EEC)	N;R51/53. R10, R66, R67.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

Signal Word	Warning			
Hazard Statements				
	H226	Flammable liquid and vapour.		
	H336	May cause drowsiness or dizziness.		
	H411	Toxic to aquatic life with long lasting effects.		
Precautionary Statements				
	P102	Keep out of reach of children.		
	P101	If medical advice is needed, have product container or label at hand.		
	P271	Use only outdoors or in a well-ventilated area.		
	P273	Avoid release to the environment.		

	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P501A	Dispose of contents/container to special waste collection point
Supplementary Precautionary Stater	nents	
	P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
	P233	Keep container tightly closed.
	P240	Ground/bond container and receiving equipment.
	P241	Use explosion-proof electrical equipment.
	P242	Use only non-sparking tools.
	P243	Take precautionary measures against static discharge.
	P261	Avoid breathing vapour/spray.
	P370+378	In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
	P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.
	P391	Collect spillage.
	P403+233	Store in a well-ventilated place. Keep container tightly closed.
	P403+235	Store in a well-ventilated place. Keep cool.
	P405	Store locked up.
Supplemental label information		
	EUH066	Repeated exposure may cause skin dryness or cracking.
	EUH208	Contains 2-BUTANONE OXIME. May produce an allergic reaction.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

WHITE SPIRIT			30-60%
CAS-No.:	EC No.: 919-446-0	Re	gistration Number: 01-2119458049-33-XXXX
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		Classification (67/548/EEC) Xn;R65. N;R51/53. R10,R66,R67.	
2-BUTANONE OXIME			<1%
CAS-No.: 96-29-7	EC No.: 202-496-6		Registration Number: 01-2119539477-28
Classification (EC 1272/2008) Acute Tox. 4 - H312 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Carc. 2 - H351		Classification (67/548/EEC) Carc. Cat. 3;R40 Xn;R21 R43 Xi;R41	
Low Aromatic White Spirit			<0.1%
CAS-No.: 64742-48-9	EC No.: 265-150-3		Registration Number: 01-2119457273-39

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Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 Asp. Tox. 1 - H304		Classification (67/548/EEC) Xn;R65. R10,R66.
ZIRCONIUM SALT, 2-ETHYLHEXANOIC	ACID	<0.1%
CAS-No.: 22464-99-9	EC No.: 245-018-1	Registration Number: 01-2119979088-21-0002
Classification (EC 1272/2008) Repr. 2 - H361d		Classification (67/548/EEC) Repr. Cat. 3;R63.
2-METHYLPENTANE-2,4-DIOL		<0.1%
CAS-No.: 107-41-5	EC No.: 203-489-0	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		Classification (67/548/EEC) Xi;R36/38
Low Aromatic White Spirit		<0.1%
CAS-No.:	EC No.: 919-857-5	Registration Number: 01-2119463258-33-XXXX
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H336 Asp. Tox. 1 - H304		Classification (67/548/EEC) Xn;R65. R10,R66,R67.
ZIRCONIUM PROPIONATE		<0.1%
CAS-No.: 84057-80-7	EC No.: 281-897-8	Registration Number: 01-2119978305-30-0000
Classification (EC 1272/2008) Not classified.		Classification (67/548/EEC) Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious.

Inhalation

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues. Place unconscious person on the side in the recovery position and ensure breathing can take place. Ingestion

DO NOT induce vomiting. Get medical attention immediately. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

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

General information

If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

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

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards FLAMMABLE. Solvent vapours may form explosive mixtures with air. Specific hazards When heated and in case of fire, harmful vapours/gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Be aware of danger for fire to re-start. Cool containers exposed to flames with water until well after the fire is out. Do not allow runoff to sewer, waterway or ground. Protective equipment for fire-fighters

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Do not smoke, use open fire or other sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product. The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container at temperatures between 5°C and 25°C. Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Store separated from: Oxidising material. Alkalis. Acids.

Storage Class

Flammable liquid storage. The storage and use of this product is subject to the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage od Danderous Substances: DSEAR. Up to 250 litres of liquids with a flashpoint above 32C but below 55C may be kept in a workroom provided they are kept in closed containers in a marked, fire-resisting cupboard or bin. Larger quantities must be kept in a separate , marked storeroom conforming to the structural requirements contained in the HSE guidance note Storage of Flammable Liquids in Containers.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA	- 8 Hrs	STEL	- 15 Min	Notes
2-METHYLPENTANE-2,4-DIOL	WEL	25 ppm	123 mg/m3	25 ppm	123 mg/m3	
Low Aromatic White Spirit	WEL		1000 mg/m3			
Low Aromatic White Spirit	WEL		1000 mg/m3			
WHITE SPIRIT	WEL		350 mg/m3			
ZIRCONIUM PROPIONATE	WEL		5 mg/m3		10 mg/m3	
ZIRCONIUM SALT, 2-ETHYLHEXANOIC ACID	WEL		5 mg/m3		10 mg/m3	

WEL = Workplace Exposure Limit.

Low Aromatic White Spirit

DNEL				
Consumer	Oral	Long Term	Systemic Effects	300 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	300 mg/kg/day
Industry	Dermal	Long Term	Systemic Effects	300 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	1500 mg/m3
Consumer	Inhalation.	Long Term	Systemic Effects	900 mg/m3
No DNEC available	Substance is a hydrocarbo	on LIVCB Standard to	ste for this ondpoint are inte	and od for single substances and are not

No PNEC available. Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

<u>WHITE SPIRIT</u>

Consumer	Oral	Long Term	Systemic Effects	1040 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	1040 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	710 mg/m3
Consumer	Inhalation.	Short Term	Systemic Effects	570 mg/m3
Industry	Inhalation.	Short Term	Systemic Effects	570 mg/m3
Industry	Inhalation.	Long Term	Systemic Effects	1980 mg/m3
Industry	Dermal	Long Term	Systemic Effects	1056 mg/kg/day

8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

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Hand protection

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin. Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

Hygiene measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear, yellowish liquid.
Colour	Light (or pale). Yellow.
Odour	Characteristic. of solvents
Relative density	@20 °C
	0.93
Vapour density (air=1)	heavier than air
Viscosity	4.0 Ps @ 25 °C
Flash point (°C)	above 32 CC (Closed cup).

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidising substances.

10.5. Incompatible materials

Materials To Avoid Strong alkalis. Strong acids. Strong oxidising substances.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

Vapour from this chemical can be hazardous when inhaled. Vapour may irritate respiratory system or lungs.

Ingestion

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation.

Eye contact

May cause temporary eye irritation.

Health Warnings This product has low toxicity. Only large volumes may have adverse impact on human health.

Route of entry Inhalation. Skin absorption. Ingestion. Skin and/or eye contact. Medical Considerations

Skin disorders and allergies. Avoid vomiting and normal rinse of stomach because of risk of aspiration.

Toxicological information on ingredients.

Other Health Effects This substance has no evidence of carcinogenic properties.

Acute toxicity: Acute Toxicity (Oral LD50) > 15000 mg/kg Rat Minimally toxic via ingestion

Acute Toxicity (Dermal LD50) ~ 3400 mg/kg Rabbit Not corrosive to skin Not irritating

Acute Toxicity (Inhalation LC50) > 13.1 mg/l (vapours) Rat 4 hours

<u>Serious eye damage/irritation:</u> Not Irritating.

Respiratory or skin sensitisation: Respiratory sensitisation Not determined. There is evidence that the material can lead to respiratory hypersensitivity. Not Sensitising.

<u>Carcinogenicity:</u> Carcinogenicity NOAEL 300 mg/kg Oral Rat

Reproductive Toxicity: Reproductive Toxicity - Fertility One-generation study: NOAEL >3000 mg/kg/day Oral Rat P Reproductive Toxicity - Development Developmental toxicity: NOAEC >300 ppm Inhalation. Rat

<u>Specific target organ toxicity - single exposure:</u> Target Organs Central nervous system

<u>Specific target organ toxicity - repeated exposure:</u> STOT - Repeated exposure NOAEL 1056 mg/kg Oral Rat

Aspiration hazard:

Viscosity Kinematic viscosity <= 20.5 mm2/s. Inhalation No specific health warnings noted. Ingestion Harmful: may cause lung damage if swallowed. May cause stomach pain or vomiting. Skin contact May cause defatting of the skin, but is not an irritant. Not a skin sensitiser. Eye contact No specific health warnings noted. Route of entry Skin and/or eye contact. Inhalation. Central nervous system

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity

Ecological information on ingredients.

WHITE SPIRIT

Dangerous for the environment if discharged into watercourses Toxic to aquatic organisms LC 50, 96 Hrs, Fish mg/l 10 - 30 EC 50, 48 Hrs, Daphnia, mg/l 10 - 22 IC 50, 72 Hrs, Algae, mg/l 4.6 - 10 Chronic Toxicity - Aquatic Invertebrates

NOEC 21 days < 0.28 mg/l Daphnia magna

12.2. Persistence and degradability

Degradability

The product is not expected to be biodegradable.

Ecological information on ingredients.

WHITE SPIRIT

Degradability The product is easily biodegradable. Biodegradation Degradation (75%) 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential The product contains potentially bioaccumulating substances.

Ecological information on ingredients.

WHITE SPIRIT

Bioaccumulation factor

Scientifically unjustified.

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

12.4. Mobility in soil

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

Ecological information on ingredients.

WHITE SPIRIT

Adsorption/Desorption Coefficient

Scientifically unjustified.

Volatilisation is dependent on Henry's Law constant (HLC) which is not applicable to complex substances.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

WHITE SPIRIT

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

The product contains volatile, organic compounds which have a photochemical ozone creation potential.

Ecological information on ingredients.

WHITE SPIRIT

This substance may contribute to ozone formation in the near surface atmosphere. However, the photochemical formation of ozone depends on a complex interaction of other atmospheric pollutant sources and environmental conditions. Therefore, the contribution of this substance to ozone formation is outside the scope of this substance assessment and is more appropriately addressed via EU air quality directives.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Do not allow to enter drains, sewers or watercourses.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

Waste Class

When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as hazardous waste, with code 08 01 11* (SOLVENT BASED LIQUID WASTE). Part-used containers, not drained and/or rigorously scraped out and containing dried residues of the supplied coating, are categorised as hazardous waste, with code 08 01 11* (SOLVENT BASED LIQUID WASTE). If mixed with other wastes, the above waste code may not be applicable. Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging).

SECTION 14: TRANSPORT INFORMATION

General This	product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and
IMD	G.

14.1. UN number

UN No. (ADR/RID/ADN)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263

14.2. UN proper shipping name

Proper Shipping Name	Contains White Spirit, Class 3, PG III, (38 $^\circ\text{C}$ c.c), MARINE POLLUTANT
Proper Shipping Name	PAINT

14.3. Transport hazard class(es)

ADR/RID/ADN Class	1263
ADR/RID/ADN Class	Class 3: Flammable liquids.
IMDG Class	3
ICAO Class/Division	3
Transport Labels	

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14.4. Packing group

ADR/RID/ADN Packing group

IMDG Packing group	ш
ICAO Packing group	Ш

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

EMS F-E, S-E Tunnel Restriction Code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138] Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 453/2010 Update for CLP labelling.		
Issued By	HS&E Manager.	
Revision Date	19/05/2015	
Revision	3	
Supersedes date	29/07/2014	
SDS No.	11135	
Safety Data Sheet Status	Approved.	

Date	Date printed
Signature	Initials
Risk Phrases In Full	
R10	Flammable.
R21	Harmful in contact with skin.
R65	Harmful: may cause lung damage if swallowed.
R36/38	Irritating to eyes and skin.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitisation by skin contact.
NC	Not classified.
R63	Possible risk of harm to the unborn child.
R66	Repeated exposure may cause skin dryness or cracking.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.
Hazard Statements In Full	
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.