EN

Safety Data Sheet

according to Regulation 830/2015/EU (Annex II)

ZINCSPRAY

GHS07: Irritant

GHS02: Flammable

GHS09: Environmental hazards

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: ZINCSPRAY

Product form: Mixture containing:

Name:	N. CAS:
HYDROCARBONS, C3-4; PETROLEUM GAS	68476-40-4
HYDROCARBONS, C6, ISOALKANES, <5 % N-HEXANE	-
O-XYLENE	1330-20-7
ZINC POWDER - ZINC DUST (STABILIZED)	7440-66-6
N-BUTYL ACETATE	123-86-4

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

Recommended use: Paint spray (aerosol)

1.3. Details of the supplier of the safety data sheet

GCE GROUP
GCE Holding AB
Källvattengatan 9
Box 21044
200 21 Malmö SWEDEN

Tel: +46(0)40-38 83 45
Fax: +46(0)40-38 83 33
mujelli@gcegroup.com
www.gcegroup.com

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1.4. Emergency telephone number

National Poisons Information Service (NPIS) – **UK**
dial 111 (England, Wales and Scotland)
dial 01 809 2166 (Rep. of Ireland)
Contact your local GP or pharmacist during normal hours (N. Ireland)
www.npis.org/telephone.html

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] and its amendments.

Danger, Flam. Aerosol 1, Extremely flammable aerosol.

Warning, Skin Irrit. 2, Causes skin irritation.

Warning, Eye Irrit. 2, Causes serious eye irritation.

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

Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects

No other hazards

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms (CLP):

GHS07 GHS02 GHS09

Signal Word (CLP) : DANGER

Contents :

Hydrocarbons, C6, Isoalkanes, <5 % n-Hexane

Hazard statements:

H222 Extremely flammable aerosol.
H229 Pressurized container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F.
P501 Dispose of container in accordance with national regulation.

Special Provisions:

The manufacturer cannot be held responsible in case of damages caused by incorrect use of the product.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N.A

3.2. Mixtures

Hazardous components in compliance with Regulation (EC) No. 1272/2008 [CLP] and its amendments.

Name:	**HYDROCARBONS, C3-4; PETROLEUM GAS**	REACH No:	01-2119486557-22
		CAS No:	68476-40-4
Concentration:	>= 30% - < 40%	EC No:	270-681-9
Classification:	substance with a Community workplace exposure limit	Index No:	649-199-00-1
Press. Gas H280	Flam. Gas 1 H220		
Note K* The substance contains < 0,1 % weight/weight 1,3-butadiene (EINECS No. 203-450-8).			

Name: **HYDROCARBONS, C6, ISOALKANES, <5 % N-HEXANE**			REACH No: 01-2119484651-34
			CAS No: -
Concentration: >= 25% - < 30%			EC No: 931-254-9
Classification:			Index No: -
Flam. Liq. 2 H225	Asp. Tox. 1 H304	Skin Irrit. 2 H315	
STOT SE 3 H336	Aquatic Chronic 2 H411		
Name: **O-XYLENE**			REACH No: 01-2119488216-32
			CAS No: 1330-20-7
Concentration: >= 10% - < 12.5%			EC No: 215-535-7
Classification:			Index No: 601-022-00-9
Flam. Liq. 3 H226	Skin Irrit. 2 H315	Dermal Acute Tox. 4 H312	
Inhal Acute Tox. 4 H332			
Name: **ZINC POWDER - ZINC DUST (STABILIZED)**			REACH No: 01-2119467174-37
			CAS No: 7440-66-6
Concentration: >= 5% - < 7%			EC No: 231-175-3
Classification:			Index No: 030-002-00-7
Aquatic Acute 1 H400	Aquatic Chronic 1 H410		
Name: **N-BUTYL ACETATE**			REACH No: 01-2119485493-29
			CAS No: 123-86-4
Concentration: >= 0.5% - < 1%			EC No: 204-658-1
Classification:			Index No: 607-025-00-1
Flam. Liq. 3 H226	STOT SE 3 H336		

For the wording of the listed risk phrases refer to section 16.

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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. 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:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

N.A. as aerosol preparation.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:
CO2 or Dry chemical fire extinguisher.

Unsuitable extinguishing media:
None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for fire-fighters

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.

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

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Pressurized container. Do not perforate or burn even after use.
Do not use near fire or other possible sources of ignition. During work phase do not smoke.
Avoid contact with skin and eyes, inhalation of vapours and mists.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

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

Incompatible materials:
None in particular. See also section 10

Instructions as regards storage premises:
Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Hydrocarbons, C3-4; Petroleum gas - CAS: 68476-40-4

TLV TWA	1000 ppm (2400mg/m3)
TLV STEL	4000 ppm (9600mg/m3)

Hydrocarbons, C6, Isoalkanes, <5 % n-Hexane

TLV TWA	1200 mg/m3

O-xylene - CAS: 1330-20-7

TLV TWA	100 ppm
TLV STEL	150 ppm
OEL 8h	50 ppm (221 mg/m3) Skin
OEL short	100 ppm (442 mg/m3) Skin

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

TLV TWA	ppm 150
TLV STEL	ppm 200

DNEL Exposure Limit Values:

Hydrocarbons, C6, Isoalkanes, <5 % n-Hexane

Category	Route of Exposure	Exposure Duration	Effect	Value
Worker Industry	Human Inhalation	Long Term	systemic effects	5306 mg/m³
Consumer	Human Inhalation	Long Term	systemic effects	1137 mg/m³
Worker Industry	Human Dermal	Long Term	systemic effects	13964 mg/m³
Consumer	Human Dermal	Long Term	systemic effects	1377 mg/kg
Consumer	Human Oral	Long Term	systemic effects	1301 mg/kg

PNEC Exposure Limit Values : N.A.

8.2. Exposure controls

Eye protection:

Wear goggles with lateral protection EN166 .
If exposure to vapours cause a sense of bother to eyes, use antigas mask with complete facial.

Protection for skin:

It is not necessary in case of brief contact except for wearing antistatic clean and covering garments.
In case of long and frequent contact use protective and waterproof garments to this material.
Choosing specific protection as peak, gloves, boots, overalls depends on the type of operations.

Protection for hands:

During normal manipulation it is not necessary a particular protection.
In case of frequent contacts protect hands with gloves resistant to solvents (OVC,PE, neoprene, not natural rubber).

Respiratory protection:

The levels of air concentration should be maintained under the exposure limits.
If inhalation are over exposure limit use a supplied air respirator with cartridge filter.
Filter type EN 141.

Thermal Hazards:

None

Environmental exposure controls:

Keep the container and use the product only in well ventilated place.
A located ventilation may be necessary for some operations.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a)	Appearance:	Pressurized container with liquefied gases.
b)	Odour:	Characteristic
c)	Odour threshold:	N.A.
d)	pH:	N.A.
e)	Melting point / freezing point:	N.A.
f)	Initial boiling point and boiling range:	> -42 °C
g)	Flash point:	< 0 ° C
h)	Evaporation rate:	N.A.
i)	Flammability (solid, gas):	N.A.
j)	Upper/lower flammability or explosive limits:	N.A.
k)	Vapour pressure:	N.A.
l)	Vapour density:	> 2
m)	Relative density:	N.A.
n)	Solubility:	
	• Solubility in water:	Not soluble.
	• Solubility in oil:	Soluble.
o)	Partition coefficient (n-octanol/water):	N.A.
p)	Auto-ignition temperature:	> 400 °C
q)	Decomposition temperature:	N.A.
r)	Viscosity:	N.A.
s)	Explosive properties:	N.A.
t)	Oxidizing properties:	N.A.

9.2. Other information

No data available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions

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10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Keep away from sunlight, overheating. Keep at temperature not exceeding 50°C.
Keep away from oxidant agents.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information of the mixture: N.A.

Toxicological information of the main substances found in the mixture:

a) Acute toxicity :
Hydrocarbons, C6, Isoalkanes, <5 % n-Hexane
Test: LC50 - Route: Inhalation - Species: Rat > 20 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 3000 mg/kg

O-xylene:
Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 4350 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 27 mg/l - Duration: 4h

b) Skin corrosion/irritation : Not classified
c) Serious eye damage/irritation : Not classified
d) Respiratory or skin sensitisation : Not classified
e) Germ cell mutagenicity : Not classified
f) Carcinogenicity : Not classified
g) Reproductive toxicity : Not classified
h) STOT-single exposure : Not classified
i) STOT-repeated exposure: Not classified
j) Aspiration hazard : Not classified

12. ECOLOGICAL INFORMATION

12.1. Toxicity

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

It doesn't contain CHLORINE-FLUORINE-CARBIDE.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

a) Aquatic acute toxicity:
Hydrocarbons, C6, Isoalkanes, <5 % n-Hexane
Endpoint: LC50 - Species: Fish = 55 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Zinc powder - zinc dust (stabilized) - CAS: 7440-66-6
Endpoint: LC50 - Species: Fish = 7.1 mg/l - Duration h: 96 - Notes: Nothobranchius guentheri
Endpoint: EC50 - Species: Daphnia = 2.8 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 0.15 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

12.2. Persistence and degradability

None

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12.3. Bio accumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None
PBT Substances : None

12.6. Other adverse effects

None

13. DISPOSAL CONSIDERATION

13.1. Waste treatment methods

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. Aerosol container can explode at temperature. Above 50°C if contains little gas residue. Spray all the aerosol content before disposal. The product has to be considered: special dangerous disposal.

Waste disposal key:
The aerosol as a domestic waste is excluded from the application of such a normative for industrial activity, the empty aerosol for professional use can be classified as follow: 15.01.10: packaging containing residues of dangerous substances or residues contaminated by these substances.

14. TRANSPORT INFORMATION

14.1. UN number

ADR-UN number: UN 1950
IATA-UN number: UN 1950
IMDG-UN number: UN 1950

14.2. UN proper shipping name

ADR-Shipping Name: AEROSOLS, Flammable
IATA-Technical name: AEROSOLS
IMDG-Technical name: AEROSOLS, Flammable

Limited Quantity: max 1000ml Total gross mass of package not exceed 30 kg LQ2

14.3. Transport hazard class(es)

ADR-Classe:	2, 5F	ADR-Label:	<UN1950 AEROSOLS>
IATA-Classe:	2.1	IATA-Label:	<UN1950 AEROSOLS>
IMDG-Classe:	2	IMDG-Label:	<UN1950 AEROSOLS>

14.4. Packing Group

14.5 Environmental hazards

14.6. Special Precautions for User

IMDG-Technical name: AEROSOLS, Flammable
IMDG-EMS: F-D
IMDG-MFAG: S-U

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N.A.

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)
Dir. 2000/39/EC (Occupational exposure limit values)
Dir. 2006/8/EC
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) n. 453/2010 (Annex II) and Regulation (EU) n. 830/2015 (Annex II)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH)and subsequent modifications: None

Where applicable, refer to the following regulatory provisions:
Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

15.2. Chemical Safety Assessment

No.

16. OTHER INFORMATION

Legenda

N.A.:	not applicable
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labelling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA-TLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

Full text of phrases referred to in Section 3:

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects.

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
CCNL - Appendix 1

Gas Control Equipment

Safety Data Sheet prepared according to with Regulation 830/2015/EU (Annex II).

This Safety Data Sheet has been compiled in accordance with current European regulations and is applicable to all countries that have implemented these standards in their national laws.

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. The Company shall not be liable for any damages or injury resulting from its use.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. It is always the responsibility of the user to comply with the rules of hygiene, safety and environmental protection provided by applicable law.

This MSDS cancels and replaces any preceding release.
Revision 05: Revision of the document in accordance with Regulation 830/2015/EU (Annex II)

This Data Sheet is based on information supplied by producer (version 3.7 dated 18/07/2014).