SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or designation

Comma Copper Ease

of the mixture

Registration number

Synonyms None. CF*G **Product code**

12-December-2018 Issue date

Version number 07

16-August-2021 **Revision date** 25-March-2021 Supersedes date

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

Identified uses Grease Uses advised against None known. 1.3. Details of the supplier of the safety data sheet

Manufactured by Moove Lubricants

Address Dering Way, Gravesend, Kent DA12 2QX UK

+44 (0) 1474 564 311 Telephone

Address Operations Plant Dering Way, Gravesend, Kent DA12 2QX UK

+44 (0) 1474 564 311 **Telephone**

technical@uk.moovelub.com **Email**

1.4. Emergency telephone

Asia Pacific + (1) 760 476 3960 China + (86) 4001 2001 74 + (44) 8 08 189 0979 Europe Middle East/Africa + (1) 760 476 3959

Access Code 334498

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Environmental hazards

Hazardous to the aquatic environment, acute Category 1

aquatic hazard

Hazardous to the aquatic environment, H411 - Toxic to aquatic life with Category 2

long-term aquatic hazard long lasting effects.

Dangerous for the environment if discharged into watercourses. Not classified for health hazards. **Hazard summary**

However, occupational exposure to the mixture or substance(s) may cause adverse health

effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms

Signal word None.

Hazard statements

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

CE*G Version #: 07 Revision date: 16-August-2021 Issue date: 12-December-2018

H400 - Very toxic to aquatic life.

Precautionary statements

Prevention

Avoid release to the environment. P273

Response

Collect spillage. P391 Not available. **Storage**

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label information None.

2.3. Other hazards This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII. Not

a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Copper Flakes (coated) (Cofume)	opper 5 - < 10	7440-50-8 231-159-6	-	029-019-01-X	
		ye Irrit. 2;H319, Acute atic Chronic 1;H410(M	Tox. 3;H331, Aquatic Acute =100)		

Other components below reportable 90 - 100

levels

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and

delayed

Exposure may cause temporary irritation, redness, or discomfort.

4.3. Indication of any immediate medical attention

and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

Use water spray to cool unopened containers.

procedures Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Material name: Comma Copper Ease - Moove Lubricants Itd.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection,

see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Following product recovery flush area with water

is without risk. Following product recovery, flush area with water.

6.4. Reference to other

sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

SDS).

7.3. Specific end use(s) Grease

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)				
Components	Туре	Value	Form	
Copper Flakes (coated) (Copper fume) (CAS 7440-50-8)	STEL	2 mg/m3	Inhalable dusts and mists.	
	TWA	1 mg/m3	Inhalable dusts and mists.	
		0.2 mg/m3	Fume.	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect

Not available.

concentrations (PNECs)

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

Material name: Comma Copper Ease - Moove Lubricants Itd.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Solid. Physical state Solid. **Form** Colour Copper. Odour Slight.

Not available. **Odour threshold** Not available. pН

> 200 °C (> 392 °F) / 1083 °C (1981.4 °F) estimated Melting point/freezing point

Initial boiling point and boiling

range

2595 °C (4703 °F) estimated

Flash point > 200.0 °C (> 392.0 °F)

Evaporation rate Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

0.00001 hPa estimated Vapour pressure

Not available. Vapour density

1.08 Relative density

20 °C (68 °F) Relative density temperature

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature** Not available. **Viscosity Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

9.2. Other information

8.94 g/cm3 estimated Density 8.94 estimated Specific gravity

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

materials.

10.5. Incompatible materials Strong oxidising agents.

No hazardous decomposition products are known. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Material name: Comma Copper Ease - Moove Lubricants Itd.

No adverse effects due to skin contact are expected. Skin contact Direct contact with eyes may cause temporary irritation. Eye contact

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of Ingestion

occupational exposure.

Symptoms Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on toxicological effects

Acute toxicity

Components **Species Test Results**

Copper Flakes (coated) (Copper fume) (CAS 7440-50-8)

Acute

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Inhalation

Rat LC50 > 5.11 mg/l, 4 Hours

Oral

LD50 Rat 481 mg/kg

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye

irritation

Due to partial or complete lack of data the classification is not possible.

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Carcinogenicity Due to partial or complete lack of data the classification is not possible. Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects. Due to partial or complete lack of data the

classification for hazardous to the aquatic environment, acute hazard, is not possible.

Product Test Results Species Comma Copper Ease Aquatic Crustacea 2.908 mg/l, 48 hours estimated EC50 Daphnia Fish 45.9517 mg/l. 96 hours estimated LC50 Fish **Test Results** Components **Species**

Copper Flakes (coated) (Copper fume) (CAS 7440-50-8)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 0.036 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 0.0319 - 0.0544 mg/l, 96 hours

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

No data available. 12.3. Bioaccumulative potential Partition coefficient

n-octanol/water (log Kow)

Not available.

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

Not a PBT or vPvB substance or mixture. This mixture does not meet vPvB / PBT criteria of

Regulation (EC) No 1907/2006, Annex XIII.

Material name: Comma Copper Ease - Moove Lubricants Itd.

potential, endocrine disruption, global warming potential) are expected from this component.

13.1. Waste treatment methods

SECTION 13: Disposal considerations

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

UN3077 14.1. UN number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper Flakes (coated) 14.2. UN proper shipping

(Copper fume)) name

14.3. Transport hazard class(es)

Class 9 **Classification Code** M7 Subsidiary risk 9 Label(s) 90 Hazard No. (ADR) **Tunnel restriction code** F Ш 14.4. Packing group

14.5. Environmental hazards Yes

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

RID

14.1. UN number UN3077

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper Flakes (coated)

name (Copper fume))

14.3. Transport hazard class(es)

9 Class **Classification Code** M7 Subsidiary risk 9 Label(s) 14.4. Packing group Ш 14.5. Environmental hazards Yes

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

UN3077 14.1. UN number

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper Flakes (coated)

(Copper fume)) name

14.3. Transport hazard class(es)

9 Class Subsidiary risk 9 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards Yes

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

14.1. UN number

Environmentally hazardous substance, solid, n.o.s. (Copper Flakes (coated) (Copper fume)) 14.2. UN proper shipping

name

14.3. Transport hazard class(es)

Class Material name: Comma Copper Ease - Moove Lubricants Itd. Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards Yes
ERG Code 9L

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

Not applicable.

IMDG

14.1. UN number UN3077

14.2. UN proper shipping

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper Flakes (coated)

(Copper fume)), MARINE POLLUTANT

14.3. Transport hazard class(es)

Class 9
Subsidiary risk
14.4. Packing group III

14.5. Environmental hazards

Marine pollutant Yes

EmS F-A, S-F

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

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

Code

ADN; ADR; IATA; IMDG; RID



Marine pollutant



General information IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Copper Flakes (coated) (Copper fume) (CAS 7440-50-8)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Copper Flakes (coated) (Copper fume) (CAS 7440-50-8)

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

The classification for health and environmental hazards is derived by a combination of calculation

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC: Intermediate Bulk Container.

IMDG: International Maritime Dangerous Goods.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative, toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TWA: Time Weighted Average.

vPvB: Very persistent and very bioaccumulative.

References

Information on evaluation method leading to the classification of mixture

Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

methods and test data, if available.

H331 Toxic if inhaled.

Not available.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. SECTION 2: Hazards identification: Hazard statements

GHS: Classification

Training information

Revision information

Follow training instructions when handling this material.

Disclaimer

Moove Lubricants Itd. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in

the sheet was written based on the best knowledge and experience currently available.