Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.11.2014 *Revision: 28.11.2014*

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

· ***1.1 Product identifier***

· *Trade name:* ***Rust protection primer No. 234***

· *Article number:* 234

· ***1.2 Relevant identified uses of the substance or mixture and uses advised against*** No further relevant information available.

· *Application of the substance / the mixture* Lacquer

· ***1.3 Details of the supplier of the safety data sheet***

· *Manufacturer/Supplier:*

AURO AG
Alte Frankfurter Str. 211
D-38122 Braunschweig
nieder@auro.de

· *Further information obtainable from:* product safety department

· ***1.4 Emergency telephone number:*** During normal opening times: +49 531 281 41 19

SECTION 2: Hazards identification

· ***2.1 Classification of the substance or mixture***

· *Classification according to Regulation (EC) No 1272/2008*

Flam. Liq. 3	H226	Flammable liquid and vapour.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.

· *Classification according to Directive 67/548/EEC or Directive 1999/45/EC*

Xi; Irritant

R38: Irritating to skin.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10: Flammable.

· *Information concerning particular hazards for human and environment:*

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· *Classification system:*

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· ***2.2 Label elements***

· *Labelling according to Regulation (EC) No 1272/2008* The product is classified and labelled according to the CLP regulation.

· *Hazard pictograms*

GHS02 GHS07 GHS09

· *Signal word* Warning

· *Hazard-determining components of labelling:*

orange oil
cobalt bis(2-ethylhexanoate)

· *Hazard statements*

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

· *Precautionary statements*

P101 If medical advice is needed, have product container or label at hand.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.11.2014 *Revision: 28.11.2014*

Trade name: Rust protection primer No. 234

(Contd. of page 1)

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P321	Specific treatment (see on this label).
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***2.3 Other hazards***
· *Results of PBT and vPvB assessment*
· *PBT:* Not applicable.
· *vPvB:* Not applicable.

SECTION 3: Composition/information on ingredients

· ***3.2 Chemical characterisation: Mixtures***
· *Description:* Mixture of substances listed below with nonhazardous additions.

· *Dangerous components:*

CAS: 8028-48-6 EINECS: 232-433-8	orange oil Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	10-25%
CAS: 64-17-5 EINECS: 200-578-6	ethanol Flam. Liq. 2, H225	1 - 10%
CAS: 136-52-7 EINECS: 205-250-6	cobalt bis(2-ethylhexanoate) Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317	< 1%

SECTION 4: First aid measures

· ***4.1 Description of first aid measures***
· *After inhalation:*
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· *After skin contact:* Immediately wash with water and soap and rinse thoroughly.
· *After eye contact:* Rinse opened eye for several minutes under running water.
· *After swallowing:* If symptoms persist consult doctor.
· ***4.2 Most important symptoms and effects, both acute and delayed*** No further relevant information available.
· ***4.3 Indication of any immediate medical attention and special treatment needed*** No further relevant information available.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· *Suitable extinguishing agents:* CO2, sand, extinguishing powder. Do not use water.
· *For safety reasons unsuitable extinguishing agents:* Water with full jet
· ***5.2 Special hazards arising from the substance or mixture*** No further relevant information available.
· ***5.3 Advice for firefighters***
· *Protective equipment:* No special measures required.

SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep unprotected persons away.
· ***6.2 Environmental precautions:***
Do not allow product to reach sewage system or any water course.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.11.2014 *Revision: 28.11.2014*

Trade name: Rust protection primer No. 234

(Contd. of page 2)

Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· ***6.3 Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
· ***6.4 Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling***
Use only in well ventilated areas.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· *Information about fire - and explosion protection:*
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· ***7.2 Conditions for safe storage, including any incompatibilities***
· *Storage:*
· *Requirements to be met by storerooms and receptacles:* No special requirements.
· *Information about storage in one common storage facility:* Not required.
· *Further information about storage conditions:* Keep container tightly sealed.
· ***7.3 Specific end use(s)*** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· *Additional information about design of technical facilities:* No further data; see item 7.

· ***8.1 Control parameters***

· *Ingredients with limit values that require monitoring at the workplace:*	
64-17-5 ethanol	
WEL	Long-term value: 1920 mg/m³, 1000 ppm

· *Additional information:* The lists valid during the making were used as basis.

· ***8.2 Exposure controls***
· *Personal protective equipment:*
· *General protective and hygienic measures:*
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
· *Respiratory protection:*
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Use suitable respiratory protective device in case of insufficient ventilation.
· *Protection of hands:*

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.11.2014 *Revision: 28.11.2014*

Trade name: Rust protection primer No. 234

(Contd. of page 3)

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· *Penetration time of glove material*

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· *Eye protection:*

Tightly sealed goggles

SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***

· *General Information*	
· *Appearance:*	
Form:	Viscous
Colour:	According to product specification
· *Odour:*	Characteristic
· *Odour threshold:*	Not determined.
· *pH-value:*	Not determined.
· *Change in condition*	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	36 °C
· *Flash point:*	21 - 55 °C
· *Flammability (solid, gaseous):*	Not applicable.
· *Ignition temperature:*	255 °C
· *Decomposition temperature:*	Not determined.
· *Self-igniting:*	Product is not selfigniting.
· *Danger of explosion:*	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· *Explosion limits:*	
Lower:	0.7 Vol %
Upper:	6.1 Vol %
· *Vapour pressure at 20 °C:*	2.1 hPa
· *Density at 20 °C:*	1.2 g/cm³
· *Relative density*	Not determined.
· *Vapour density*	Not determined.
· *Evaporation rate*	Not determined.
· *Solubility in / Miscibility with water:*	Not miscible or difficult to mix.
· *Partition coefficient (n-octanol/water):*	Not determined.
· *Viscosity:*	
Dynamic:	Not determined.
Kinematic at 20 °C:	37 s (ISO 6 mm)
VOC (EC)	300.0 g/l

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.11.2014 *Revision: 28.11.2014*

Trade name: Rust protection primer No. 234

(Contd. of page 4)

· ***9.2 Other information*** No further relevant information available.

SECTION 10: Stability and reactivity

· ***10.1 Reactivity***
· ***10.2 Chemical stability***
· *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.
· ***10.3 Possibility of hazardous reactions*** No dangerous reactions known.
· ***10.4 Conditions to avoid*** No further relevant information available.
· ***10.5 Incompatible materials:*** No further relevant information available.
· ***10.6 Hazardous decomposition products:*** No dangerous decomposition products known.

SECTION 11: Toxicological information

· ***11.1 Information on toxicological effects***
· *Acute toxicity:*

· *LD/LC50 values relevant for classification:*		
8028-48-6 orange oil		
Oral	LD50	4400 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

· *Primary irritant effect:*
· *on the skin:* Irritant to skin and mucous membranes.
· *on the eye:* No irritating effect.
· *Sensitisation:* Sensitisation possible through skin contact.
· *Additional toxicological information:*
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

SECTION 12: Ecological information

· ***12.1 Toxicity***
· *Aquatic toxicity:* No further relevant information available.
· ***12.2 Persistence and degradability*** No further relevant information available.
· ***12.3 Bioaccumulative potential*** No further relevant information available.
· ***12.4 Mobility in soil*** No further relevant information available.
· *Ecotoxical effects:*
· *Remark:* Toxic for fish
· *Additional ecological information:*
· *General notes:*
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
· ***12.5 Results of PBT and vPvB assessment***
· *PBT:* Not applicable.
· *vPvB:* Not applicable.
· ***12.6 Other adverse effects*** No further relevant information available.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.11.2014 *Revision: 28.11.2014*

Trade name: Rust protection primer No. 234

(Contd. of page 5)

SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· *Recommendation* Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· *European waste catalogue*	
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
20 01 27*	paint, inks, adhesives and resins containing dangerous substances

· *Uncleaned packaging:*
· *Recommendation:* Disposal must be made according to official regulations.

SECTION 14: Transport information

· ***14.1 UN-Number***
· *ADR, IMDG, IATA* UN1263

· ***14.2 UN proper shipping name***
· *ADR* 1263 PAINT, ENVIRONMENTALLY HAZARDOUS, special provision 640E
· *IMDG* PAINT (orange oil, cobalt bis(2-ethylhexanoate)), MARINE POLLUTANT
· *IATA* PAINT

· ***14.3 Transport hazard class(es)***
· *ADR, IMDG*

· *Class* 3 Flammable liquids.
· *Label* 3

· *IATA*

· *Class* 3 Flammable liquids.
· *Label* 3

· ***14.4 Packing group***
· *ADR, IMDG, IATA* III

· ***14.5 Environmental hazards:*** Product contains environmentally hazardous substances: orange oil
· *Marine pollutant:* Yes
Symbol (fish and tree)
· *Special marking (ADR):* Symbol (fish and tree)

· ***14.6 Special precautions for user*** Warning: Flammable liquids.
· *Danger code (Kemler):* 30
· *EMS Number:* F-E,S-E

· ***14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code*** Not applicable.

· *Transport/Additional information:*

· *ADR*
· *Limited quantities (LQ)* 5L

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.11.2014 *Revision: 28.11.2014*

Trade name: Rust protection primer No. 234

(Contd. of page 6)

· *Excepted quantities (EQ)*	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· *Transport category*	3
· *Tunnel restriction code*	D/E
· *IMDG*	
· *Limited quantities (LQ)*	5L
· *Excepted quantities (EQ)*	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· *UN "Model Regulation":*	UN1263, PAINT, special provision 640E, ENVIRONMENTALLY HAZARDOUS, 3, III

SECTION 15: Regulatory information

· ***15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture***
No further relevant information available.
· ***15.2 Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· *Relevant phrases*
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
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.

· *Department issuing MSDS:* product safety department
· *Contact:* N.N.
· *Abbreviations and acronyms:*
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2