

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH Annex II) and its amendments



GRAND SHERPA AM YELLOW DYE INK

SUBID : 000000011683

Version 3
Revision Date 12.05.2015

Print Date 13.05.2015

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

1.1 Identification of the substance or mixture:

Product name : GRAND SHERPA AM YELLOW DYE INK
REACH Registration No : Registration numbers of the individual components: see section 3.2, if applicable.

1.2 Use of the substance/mixture:

Identified relevant uses : Printer ink
Uses advised against : Do not use for products which come into direct contact with food stuffs. Do not use for products which come into direct contact with the skin. Do not use for private purposes (household).

1.3 Company/undertaking identification

Agfa-Gevaert Ltd.
Vantage West
Great West Road
Brentford, Middlesex TW8 9AX
United Kingdom
Tel. : +44 (0)20 8 231 4616
Fax : +44 (0)20 8 231 4951
E-mail: electronic.sds@agfa.com

1.4 Emergency telephone

Emergency telephone number (Belgium) : +32 3 4443333 (24h/24h)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Regulation(EC) No 1272/2008 (CLP)

Based on available data, the classification criteria are not met.

67/548/EEC or 1999/45/EC

This product is not to be labelled as a dangerous substance or preparation as defined by EC Directives and transposed into national legislation.

Full text of each relevant R and H phrase is listed in section 16.

2.2 Label elements:

Hazardous components which must be listed on the label :

- CAS-No. : 2634-33-5 1,2-Benzisothiazol-3(2H)-one
- Supplemental hazard statements : May produce an allergic reaction.

1,2-Benzisothiazol-3(2H)-one and 2-Methyl-2H-isothiazol-3-one: concentrations as mentioned in chapter 3 of this Safety Data Sheet are between 0.005% and less than 0.05%.

2.3 Other hazards:

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This product does not meet the criteria concerning PBT or vPvB substances as described in Annex XIII of the REACH regulation (1907/2006 EC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture related information:

Printer ink, mainly consisting of:

3.2 Hazard ingredients:

The hazard and labelling information in this section is that of the individual ingredients. The corresponding information relative to this product as supplied is given in section 2.1.

Hazardous components in the meaning of regulation(EC) No 1272/2008 (CLP)

- 1,2-Benzisothiazol-3(2H)-one
 - CAS-No. : 2634-33-5
 - Index-No. : 613-088-00-6
 - EINECS-No. : 220-120-9
 - REACH Registration No : Transition time according to REACH regulation article 23 is still not expired.
 - Hazard classes : Acute toxicity Oral, Skin irritation, Serious eye damage, Skin sensitizer, Acute hazards to the aquatic environment
 - Hazard categories : Category 4, Category 2, Category 1, Category 1, Category 1
 - Hazard statements : H302, H315, H318, H317, H400

Hazardous components in the meaning of 67/548/EEC or 1999/45/EC

This product does not contain any hazardous ingredients as defined by relevant legislation.

Components with a community workplace exposure limit

- Propylene glycol
- Glycerine
- 1,2-Benzisothiazol-3(2H)-one

3.3 Remark:

Full text of each relevant R and H phrase is listed in section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures:

- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin contact : Wash immediately with plenty of water and soap. If symptoms persist, seek medical advice.
- Ingestion : Rinse mouth with plenty of water. Seek medical advice.
- Inhalation : Take person to fresh air. If necessary, seek medical advice.

4.2 Most important symptoms and effects:

- Symptoms : In normal conditions of use, no adverse effects are expected.

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4.3 Indication of immediate medical attention and special treatment needed:

General advice : Call a physician immediately.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam., Carbon dioxide (CO₂)., Dry extinguishing powder., Water spray.
Extinguishing media which must not be used for safety reasons : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:

Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.
Further information : Product is not combustible.

5.3 Advice for fire-fighters:

Special protective equipment for fire-fighters : Regular fire intervention clothes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions : See section : Exposure controls / personel protection. Cleanup personnel must use appropriate personal protective equipment.
Additional advice : Contaminated water can be purified by flocculation, by the addition of small quantities of iron chloride.

6.2 Environmental precautions:

Environmental precautions : For waste disposal see section 13. The product should not be allowed to enter drains, water courses or the soil.

6.3 Methods and material for containment and cleaning up:

Methods for cleaning up : Dike the spill if necessary. Soak up with absorbent material. Collect large spills into a properly labelled and sealable container. Prevent release into the drain, soil or surface water.

6.4 Reference to other sections:

For waste disposal see section 13.
For personal protection see section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Hygiene measures : Observe normal precautions when handling chemicals. Keep away from foodstuffs, drinks and tobacco. Employees should

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wash their hands and face before eating, drinking, or using tobacco products.
Advice on protection against fire and explosion : The product is not flammable.

7.2 Conditions for safe storage:

Requirements for storage areas and containers : Keep container tightly closed. Protect from direct sunlight.
Advice on common storage : Store away from oxidizing agents.

7.3 Specific end use:

This substance is used only by trained professionals under restricted conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

8.1.1 Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

8.1.1.1 Occupational exposure limits:

Air limit values

- Propylene glycol CAS-No.: 57-55-6

Basis	Revision Date	Value	Type
EH40 WEL	2005	10 mg/m3	TWA
EH40 WEL	2005	474 mg/m3	TWA
		150 ppm	

- Glycerine CAS-No.: 56-81-5

Basis	Revision Date	Value	Type
EH40 WEL	2005	10 mg/m3	TWA

Biological limit values

We are not aware of any national exposure limit.

8.1.1.2 Additional exposure limits under the conditions of use:

No other exposure limits applicable.

8.1.1.3 DNEL/DMEL and PNEC-values:

DNEL

No DNEL/DMEL value determined. No Chemical Safety Report performed.

PNEC

No PNEC value determined. No Chemical Safety Report performed.

8.2 Exposure controls:

Occupational exposure controls:

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➤ Instruction measures to prevent exposure:

Employees should wash their hands and face before eating, drinking, or using tobacco products. Keep away from foodstuffs, drinks and tobacco.

➤ Technical measures to prevent exposure:

Ensure adequate ventilation.

➤ Personal measures to prevent exposure:

- Respiratory protection : not required under normal use
Hand protection : Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butylrubber (thickness ≥ 0.70 mm, breakthrough time > 480 min).(EN 374). The use of protective gloves should conform to the specifications of EC directive 89/686/EC and the resultant standard EN374.
Additional advice: The data are based on own tests, literature data and information of glove manufacturers or derived from similar substances. Because several factors may influence these properties (eg temperature), one should take into account the fact that the life of a chemical gloves in practice may be considerably shorter than indicated by the permeation test. The high diversity of types of use are prescribed by the manufacturer.
- Eye protection : Safety glasses.
Body Protection : Safety clothes : long sleeved clothing EN13688
Personal protective equipment : Observe normal precautions when handling chemicals.

Environmental exposure controls:

Effluent regulations/discharge/treatment/contents may vary from one area to another. Please consult the local regulations regarding the disposal of this material. Do not release into drain. Collect for removal by a licensed waste contractor.

EU Directive	Status
European Directive 2000/60/EC (water)	not on list
European Directive 1996/62/EC (air)	not on list

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties:

9.1.1 Appearance:

- State of matter : Liquid
Form : Liquid.
Color : Yellow to brownish
Odor : Odourless.
Odor threshold : No data available

9.1.2 Important health, safety and environmental information:

- pH (25 °C) : 8.8
Melting point/range : < 0 °C

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Boiling point/range	:	> 100 °C
Autoignition temperature	:	No data available
Vapour pressure (20 °C)	:	23.00 hPa
Relative vapour density	:	No data available
Relative density (20 °C)	:	1.040
Density	:	No data available
Solubility/qualitative	:	Miscible with water at all ratios.
Water solubility	:	No data available
Partition coefficient (n-octanol/water)	:	Not applicable
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Product is not combustible.

9.2 Other information:

VOC content : Not applicable

10. STABILITY AND REACTIVITY

10.1 Reactivity:

Reactivity : Reactivity is not to be expected under normal conditions of temperature and pressure.

10.2 Chemical stability:

Stability : The product is stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions:

Hazardous reactions : The product is stable under normal conditions of storage and use.

10.4 Conditions to avoid:

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Materials to avoid:

Materials to avoid : Not applicable

10.6 Hazardous decomposition products:

Hazardous decomposition products : None

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicokinetics, metabolism and distribution:

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No data available

Acute effects (toxicity tests):

➤ Acute Toxicity

- 1,2-Benzisothiazol-3(2H)-one

	Effect dose	Species	Value	Method
Acute oral toxicity	LD50	rat	1,020 mg/kg	Literature.
Acute dermal toxicity	No data available			
Acute inhalation toxicity	No data available			

➤ Specific target organ toxicity (STOT):

Specific effects	Affected organs
Based on available data, the classification criteria are not met.	

➤ Irritant and corrosive effects:

	Exposure time	Species	Evaluation	Method
Primary irritation to the skin	Based on available data, the classification criteria are not met.			
Irritation to eyes	Based on available data, the classification criteria are not met.			

➤ Irritation to the respiratory tract:

Based on available data, the classification criteria are not met.

➤ Sensitisation:

Species	Evaluation	Method
	May cause sensitization of susceptible persons by skin contact.	

➤ Aspiration hazard:

Based on available data, the classification criteria are not met.

Sub-acute, sub-chronic and chronic toxicity

➤ Repeated dose toxicity:

Based on available data, the classification criteria are not met.

➤ Specific target organ toxicity (STOT):

Based on available data, the classification criteria are not met.

➤ CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

- Carcinogenicity

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Based on available data, the classification criteria are not met.

- **Mutagenicity**

Based on available data, the classification criteria are not met.

- **Genetic toxicity in vitro**

Based on available data, the classification criteria are not met.

- **Genetic toxicity in vivo**

Based on available data, the classification criteria are not met.

- **Teratogenicity**

Based on available data, the classification criteria are not met.

- **Toxicity to reproduction**

Based on available data, the classification criteria are not met.

➤ **Summarised evaluation of the CMR properties:**

Carcinogenicity : Based on available data, the classification criteria are not met.
Mutagenicity : Based on available data, the classification criteria are not met.
Teratogenicity : Based on available data, the classification criteria are not met.
Toxicity to reproduction : Based on available data, the classification criteria are not met.

Experiences made in practice:

No toxicological effects known.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

	Effect dose	Exposure time	Species	Value
Toxicity to fish				Based on available data, the classification criteria are not met.
Toxicity to daphnia				Based on available data, the classification criteria are not met.
Toxicity to algae				Based on available data, the classification criteria are not met.
Toxicity to bacteria				Based on available data, the classification criteria are not met.

12.2 Persistence and degradability:

Physico-chemical removability

Neutralization is normally necessary before waste water is discharged into water treatment plants.

Chemical Oxygen Demand (COD)

No data available

Adsorbed organic bound halogens (AOX)

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Product does not contain any organic halogens.

Biodegradation

No data available

Biochemical Oxygen Demand (BOD)

No data available

12.3 Bioaccumulative potential:

Partition coefficient (n-octanol/water)

Not applicable

Bioconcentration factor (BCF)

No data available

12.4 Mobility in soil:

Soluble in water.

Henry's constant

Value	Temperature	Method
		No information available.

Transport between environmental compartments

Transport between environmental compartments can be expected.

12.5 Results of PBT and vPvB assessment:

This product does not meet the criteria concerning PBT or vPvB substances as described in Annex XIII of the REACH regulation (1907/2006 EC)

12.6 Other adverse effects:

This preparation does not contain any ingredient that is classified as hazardous to the environment according to European Directives and corresponding national legislation. Further information on ecology This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Waste disposal methods

Do not release into drain. Collect for removal by a licensed waste contractor. Effluent regulations/discharge/treatment/contents may vary from one area to another. Please consult the local regulations regarding the disposal of this material.

May be discharged to drain if local regulations permit.

Empty containers.

As the packaging can be contaminated with product residus, please observe the warnings of the label even when the container is empty. Do not reuse empty container without proper

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cleaning. Label precautions also apply to this container when empty.

For waste resulting from the expired product, it is recommended to use European Waste Code : 08 03 08 (aqueous liquid waste containing ink).

14. TRANSPORT INFORMATION

Not regulated according to ADR.
Not regulated according to ADNR.
Not regulated according to RID.
Not regulated according to IMO/IMDG.
Not regulated according to ICAO/IATA aircraft only.
Not regulated according to ICAO/IATA passenger and cargo aircraft.

15. REGULATORY INFORMATION

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

Authorisation and/or restriction on use

Authorisation : No
Restriction on use : Not listed on EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures & articles (Reg 1907/2006/EC, as amended)

Other EU regulations

Does not fall under specific EU-Regulations.

15.2 Chemical Safety Assessment

No Chemical Safety Report needed according REACH.

16. OTHER INFORMATION

Text of H-phrases referred to under headings 2 and 3:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

Further information

|| Section(s) changed compared to the previous issue: **2, 3, 11**

This Safety Data Sheet is compiled in accordance with European Directives and corresponding national legislation.

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The information disclosed in this Safety Data Sheet is believed to be correct to the best of our current knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other material or in any process, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the responsibility of the user to comply with local legislation relating to safety, health, environment and waste management.

Sources of key data used to compile the datasheet

Handbuch der gefährlichen Güter, Hommel.
The Dictionary of Substances and their Effects, Royal Society of Chemistry.
Gefährliche Chemische Reaktionen, L.Roth und U.Weller.
Handbuch der Umweltgifte, Dauderer.
Chemiekaarten, latest version.
Safety Data Sheet from the supplier.
IUCALD Test data.

Abbreviations

ADR:	Accord européen relatif au transport international des marchandises Dangereuses par Route
ADNR:	Accord européen relatif au transport international des marchandises Dangereuses par la Rhin
AGW:	Arbeitsplatzgrenswerte (GE)
ATEmix:	Acute toxicity estimate of the mixture
CLP:	Classification, Labelling and Packaging of substances and mixtures
CMR:	Carcinoge
DNEL:	Derived No Effect Level
EC0:	Effective Concentration 0%
EC5:	Effective Concentration 5%
EC10:	Effective Concentration 10%
EC50:	Median Effective Concentration
EC100:	Effective Concentration 100%
EH40 WEL:	Workplace Exposure Limit (UK)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IC50:	inhibitory concentration 50%
IMDG:	International Maritime Dangerous Goods
IMO:	International Maritime Organization
IUCALD:	International Uniform Chemical Information Database
LC50:	Lethal Concentration 50%
LC100:	Lethal Concentration 100%
LOAEL:	Lowest Observed Adverse Effect Level
LDL0	Lethal Dose (minimum found to be lethal)
LD50:	Lethal Dose 50%
MAC:	Maximaal Aanvaardbare Concentratie (NL)
MAK:	Maximale Arbeitsplatz-Konzentration
NOAEL:	No Observed Adverse Effect Level
NOEL:	No Observed Effect Level
NOEC:	No Observed Effect Concentration
OEL:	Occupational Exposure Limit
PBT:	Persistent, Bioaccumulative and Toxic substance
PNEC:	Predicted No Effect Concentration
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID:	Regulations concerning the International Transport of Dangerous Goods by

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STEL:	Rail
TLV:	Short Term Exposure Limit
TRGS900:	Threshold Limit Value
TWA:	Arbeitsplatzgrenswerte (GE)
VOC:	Time Weighted Average
vPvB:	Volatile Organic Compound
	very Persistent and very Bioaccumulative substance