Safety Data Sheet

6/12/2024: File reviewed, more current MSDS/SDS not available. CAS

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier: KODAK SEPIA TONER PACKET, Part B (Toning Bath)

Product code: 20314065 - Part B (Toning Bath)

Synonyms: 11020

1.2. Relevant identified uses of the substance or mixture and uses advised against:
1.2.1. Identified uses: photographic processing chemical. For industrial use only.

1.3. Details of the supplier of the safety data sheet: KODAK LIMITED, Hemel One, Boundary Way, Hemel Hempstead, HP2 7YU, Great Britain

For further information about this product, telephone 0870-2430270 or email kes@kodak.com.

1.4. Emergency telephone number:

IN EMERGENCY, telephone: 0870-2430270. Available during office hours only.

2. Hazards identification

2.1. Classification of the substance or mixture
Classification according to EU Directives 1272/2008/EC [CLP/GHS]:

Hazard class / Hazard category	Hazard statements	Route of exposure (Target organs)
Acute Tox. 4	H302	Oral
Acute Tox. 3	H311	Dermal
Skin Corr. 1B	H314	--
Aquatic Acute 1	H400	--

Classification according to EU Directives 67/548/EEC or 1999/45/EC:

Toxic, Dangerous for the environment. Toxic in contact with skin. Causes burns. Harmful if swallowed. Contact with acids liberates toxic gas. Very toxic to aquatic organisms.

Other hazards which do not result in classification:

Powdered material may form explosive dust-air mixtures.
Contact with water liberates toxic gas
Contact with acids liberates toxic gas.

2.2. Label elements:

The data below reflects current legislative requirements whereas the product in your possession may carry a different versionof the label depending on the date of manufacture.

Labelling according to 1272/2008/EC [CLP/GHS]:

Contains: Disodium sulphide

Symbol(s):

Signal word: Danger

Hazard statements:

Harmful if swallowed.
Toxic in contact with skin.
Causes severe skin burns and eye damage.
Very toxic to aquatic life.

Precautionary statements:

Prevention
Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Response
Immediately call a POISON CENTER or doctor/ physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

CAS-No.: 1313-84-4

Labelling according to 67/548/EEC or 1999/45/EC:

Contains: Disodium sulphide 100 %


Symbol/Indication of Danger:	T: Toxic N: Dangerous for the environment
Risk Phrases:	R24: Toxic in contact with skin. R34: Causes burns. R22: Harmful if swallowed. R31: Contact with acids liberates toxic gas. R50: Very toxic to aquatic organisms.
Safety Phrases:	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S57: Use appropriate container to avoid environmental contamination.

2.3. Other hazards

None known.

3. Composition/information on ingredients

Weight percent	Component	CAS-No. EC No. REACH Reg. No.	Classification according to 1272/2008/EC	Classification according to 67/548/EEC
100	Disodium sulphide	1313-84-4 not available not available	Acute Tox. 4 H302 Acute Tox. 3 H311 Skin Corr. 1B H314 Aquatic Acute 1 H400 *	T, C, N; R22, R24, R31, R34, R50 *

Full text of R- and H-phrases: see Section 16.
*** Substance classification as listed in Annex VI to Regulation (EC) No 1272/2008**
**** Substance not listed in Annex VI to Regulation (EC) No 1272/2008**

4. First aid measures

4.1. Description of first aid measures

4.1.1. Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

4.1.2. Skin: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/ physician.

4.1.3. Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

4.1.4. Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician.

4.2. Most important symptoms and effects, both acute and delayed: No information available.

4.3. Indication of immediate medical attention and special treatment needed: No information available.

5. Fire-fighting measures

5.1. Extinguishing Media: Water spray, Carbon dioxide (CO2), Dry chemical.

5.2. Special hazards arising from the substance or mixture

5.2.1. Hazardous Combustion Products: Fire or excessive heat may produce hazardous decomposition products., (see also Stability and Reactivity section).

5.2.2. Unusual Fire and Explosion Hazards: Powdered material may form explosive dust-air mixtures.

5.3. Advice for firefighters: Wear self-contained breathing apparatus and protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures: Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions: Dispose of in accordance with local regulations.

6.3. Methods and materials for containment and cleaning up: Do not use a vacuum cleaner to clean up spills of powdered developers and toners. The very fine particles can cause a fire or explosion. Collect up and put in a suitable container. Avoid generation of dust. Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections: See Section 8 for recommendations on the use of personal protective equipment.

7. Handling and storage

7.1. Precautions for safe handling
7.1.1. Personal precautions: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not eat, drink or smoke when using this product.

7.1.2. Prevention of Fire and Explosion: Powdered material may form explosive dust-air mixtures. Minimize dust generation and accumulation. Use only with adequate ventilation. Keep away from sources of ignition - No smoking. Keep from contact with oxidizing materials.

7.1.3. Ventilation: Match ventilation rates to conditions of use so as not to exceed any applicable exposure limits (see Section 8). Good general ventilation of 10 or more room volumes per hour in the work area is recommended.

7.2. Conditions for safe storage, including any incompatibilities: Cool conditions (5 - 30°C). Keep container tightly closed. Store in a well-ventilated place. Keep cool. Keep away from incompatible substances (see Incompatibility section.)

7.3. Specific end uses: No information available.

8. Exposure controls/personal protection

8.1. Control parameters
8.1.1. Occupational exposure controls: Not established

8.2. Exposure controls
8.2.1. Appropriate engineering controls: Avoid exposure to mists and vapours by mixing solutions in closed vessels and/or under local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

8.2.2. Individual protection measures, such as personal protective equipment

Eye protection: Wear safety glasses with side shields or protective goggles whenever mixing or handling solutions.

Hand protection: Using the information provided in Section 2, seek the advice of the glove supplier as to the most suitable glove material. Avoid skin contact when mixing or handling the substance/preparation or a mixture by wearing impervious gloves and protective clothing appropriate to the risk of exposure.

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact:

Material	Thickness	Breakthrough time
Nitrile rubber	>= 0.38 mm	> 480 min
Neoprene	>= 0.65 mm	> 240 min
butyl-rubber	>= 0.36 mm	> 480 min

Avoid natural rubber gloves.

The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374. This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

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

General health and safety measures: Safety shower, eye wash, washing facilities as appropriate to condition of use.

8.2.3. Environmental exposure controls: No information available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid (crystalline)

Colour: light yellow

Odour: pungent

Odour Threshold: no data available

pH: not applicable

Melting point/freezing point: 50 °C (122.0 °F)

Initial boiling point and boiling range: 174 °C (345.2 °F)

Flash point: 93 °C(199.4 °F) (micro Cleveland open cup)

Evaporation rate: no data available

Flammability (Solid; gas) : no data available

Upper explosion limit: no data available

Lower explosion limit: no data available

Vapour pressure (at 20.0 °C (68.0 °F)) : negligible

Vapour density: not applicable

Specific gravity: 1.427

Water solubility: appreciable

Partition coefficient: n-octanol/water: no data available

Autoignition temperature: 340.0 °C (644.0 °F)

Decomposition temperature: no data available

Viscosity: no data available

Explosive properties: no data available

Oxidizing properties: no data available

10. Stability and reactivity

10.1. Reactivity: no data available

10.2. Chemical stability: Stable under normal conditions.

No exotherm to 500 °C byDTA

10.3. Possibility of hazardous reactions: Hazardous polymerisation does not occur.

10.4. Conditions to avoid: no data available

10.5. Incompatible materials: Strong acids, Strong oxidizing agents. Contact with acid liberates hydrogen sulphide. Contact with water liberates toxic gas

10.6. Hazardous decomposition products: Sodium oxides, Sulphur oxides, hydrogen sulphide

11. Toxicological information

Effects of Exposure

Toxicokinetics, metabolism and distribution

no data available

Acute toxicity

- Dermal LD50: < 340 mg/kg

Corrositivity and irritation

- Skin irritation: strong
- Eye irritation: strong

Sensitisation

no data available

CMR effects
Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

Specific target organ toxicity - single exposure

No information available.

Specific target organ toxicity - repeated exposure

No information available.

Aspiration hazard

No information available.

Information on likely routes of exposure

Inhalation: Expected to be a low hazard for recommended handling. If hydrogen sulphide gas is liberated due to contact with acid, it may cause headache, nausea, dizziness, confusion, weakness, unconsciousness, convulsions, and death.

Eyes: Causes serious eye damage.

Skin: Toxic in contact with skin. Causes severe skin burns.

Ingestion: Harmful if swallowed. If free gastric acidity is high, hydrogen sulfide is liberated in the stomach and may cause systemic toxic effects such as vomiting, respiratory depression, tremors, convulsions and death.

12. Ecological information

Computer modeling data were used to estimate the environmental properties of this material.

12.1. Toxicity

Toxicity to fish (LC50):	< 1 mg/l
Toxicity to daphnia (EC50):	< 1 mg/l

12.2. Persistence and degradability

Persistence and degradability: Product is not persistent.

12.3. Bioaccumulative potential

no data available

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

13. Disposal considerations

13.1. Waste treatment methods

This information is provided to assist users in the correct disposal of working solutions prepared and used to Kodak specifications.

Working solution: Waste material is currently classified as hazardous under Council Directive 91/689/EEC. The European Waste Catalogue Code is 09 01 99 Wastes not otherwise specified.

Dispose according to the local regulations or guidelines that apply to the category of waste. Ensure the use of properly authorized waste management companies.

Product containers: If thoroughly cleaned, preferably by rinsing at least three times with small quantities of water, waste product packaging may be consigned for recovery or disposal as non hazardous waste. Whenever possible, minimize waste by using the rinsing water to make up the working solution. The European Waste Catalogue Code is 15 01 02 plastic packaging.

Waste product packaging contaminated by residues of hazardous contents should be consigned for disposal as hazardous waste. In this case, the European Waste Catalogue Code is 15 01 10 packaging containing residues of or contaminated by dangerous substances.

14. Transport information

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

ADR:	UN number:	UN1849
	Proper shipping name:	SODIUM SULPHIDE, HYDRATED
	Class:	8
	Packaging group:	II
	Marine Pollutant status:	Marine pollutant
IATA:	UN number:	UN1849
	Proper shipping name:	SODIUM SULPHIDE, HYDRATED
	Class:	8
	Packaging group:	II
	Marine Pollutant status:	Marine pollutant
	Marine Pollutant(s):	Sodium sulphide
IMDG:	UN number:	UN1849
	Proper shipping name:	SODIUM SULPHIDE, HYDRATED
	Class:	8
	Packaging group:	II
	Marine Pollutant status:	Marine pollutant
	Marine Pollutant(s):	Sodium sulphide
RID:	UN number:	UN1849
	Proper shipping name:	SODIUM SULPHIDE, HYDRATED
	Class:	8

Packaging group: II
Marine Pollutant status: Marine pollutant

For more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

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

Notification status

Regulatory List	Notification status
TSCA	Not all listed
DSL	Not all listed
NDSL	None listed
EINECS	Not all listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	Not all listed
ENCS	Not all listed
ECI	Not all listed
NZIoC	All listed
PICCS	All listed

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Kodak.

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

16. Other information

16.1. Indication of changes

Corrected/updated:
classification(s)
label information
Other recommendations based on classification changes
Multiple changes due to format update
Minor changes may be present due to component or regulatory data updates

Review Safety Data Sheet before using product.

16.2. Key or legend to abbreviations and acronyms used in the safety data sheet

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS = Australian Inventory of Chemical Substances; CAS = Chemical Abstracts Service; CLP = Classification, Labelling, and Packaging; DSL = Canada Domestic Substances List; EC = European Commission; EC50 = Effective Concentration 50%; ECI = Korea Existing Chemicals list; EINECS = European Inventory of Existing Commercial chemical Substances; ELINCS = European List of Notified Chemical Substances; ENCS = Japan Existing and New Chemical Substances; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IC50 = Inhibitory Concentration 50%; IECS = China Inventory of Existing Chemical Substances; IMDG = International Maritime Dangerous Goods; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m3 = milligrams per Cubic Meter; NDSL = Canada Non-Domestic Substances List; NLP = Europe No Longer Polymers; NZIoC = New Zealand Inventory of Chemicals; PBT = Persistent, Bioaccumulative and Toxic substances; PICCS = Philippines Inventory of Chemicals and Chemical Substances; ppm = parts per million; REACH= Registration, Evaluation and Authorization of Chemicals; RID = European Agreement concerning the International Carriage of Dangerous Goods by Rail; TSCA = Toxic Substances Control Act; vPvB = very Persistent, very Bioaccumulative substances

16.3. Key literature references and sources for data

Available upon request.

16.4. Methods used for classification of mixture according to Regulation (EC) No 1272/2008

The determination of classifications is derived via expert judgment and/or weight of evidence.

16.5. Relevant R- and H-phrases

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
R22	Harmful if swallowed.
R24	Toxic in contact with skin.
R31	Contact with acids liberates toxic gas.
R34	Causes burns.
R50	Very toxic to aquatic organisms.

16.6. Training advice

Review Safety Data Sheet before using product.

16.7. Further information

Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.