

Product Identifier: SS22 ink Black SDS No. 037-S338204 First issue: 2024/07/24 Revised:

1. IDENTIFICATION

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION
Health hazards

GHS LABEL ELEMENTS Pictograms

Signal Word

Flammable Liquid Category 4 Serious Eye Damage/Eye Irritation Category 1 Reproductive Toxicity Category 2

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SS22-K-1L / SS22-K-44 Ink for ink jet printer

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Signal Word	Danger
Hazard Statements	H227 Combustible liquid.
	H318 Causes serious eye damage.
	H361 Suspected of damaging fertility or the unborn child.
Precautionary Statements	
Prevention	P201 Obtain special instructions before use.
	P202 Do not handle until all safety precautions have been read and understood.
	P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310 Immediately call a POISON CENTER/doctor/physician/first aider.
	P370+P378 In case of fire: Use water spray/fog to extinguish.



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 Storage
 P308+P313 IF exposed or concerned: Get medical advice/ attention.

 Storage
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

 P405 Store locked up.
 P405 Store locked up.

 Disposal
 P501 Dispose of contents/container in accordance with local regulations.

COMPOSITION / INFORMATION	ON INGREDIENTS		
Substances or mixtures	Mixtures		
Chemical name	Contents	CAS RN	
Glycol ether solvents	80-90%	Trade secret	
Heterocyclic compound	1-10%	Trade secret	
Vinyl resin	1-10%	Trade secret	
Carbon black	1-10%	1333-86-4	

4. FIRST-AID MEASURES

If fumes, aerosols or combustion products are inhaled remove from
contaminated area.
Other measures are usually unnecessary.
If skin contact occurs:
Immediately remove all contaminated clothing, including footwear.
Flush skin and hair with running water (and soap if available).
Seek medical attention in event of irritation.
If this product comes in contact with the eyes:
Immediately hold eyelids apart and flush the eye continuously with running water.
Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
Continue flushing until advised to stop by the Poisons Information
Centre or a doctor, or for at least 15 minutes.
Transport to hospital or doctor without delay.
Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Immediately give a glass of water.
First aid is not generally required. If in doubt, contact a Poisons
Information Centre or a doctor.
Treat symptomatically.

5. FIRE-FIGHTING MEASURES	
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Suitable fire-extinguishing media Foam. Dry chemical powder. BCF (where regulations permit). Carbon



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-	dioxide. Water spray or fog – Large fires only.
Special hazards arising from the	
substrate or mixture	
Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.
Advice for firefighters	
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course.
	Use water delivered as a fine spray to control fire and cool adjacent area.
	Avoid spraying water onto liquid pools.
	DO NOT approach containers suspected to be hot.
	Cool fire exposed containers with water spray from a protected
	location.
Fire/Explosion Hazard	If safe to do so, remove containers from path of fire. Combustible.
	Slight fire hazard when exposed to heat or flame.
	Heating may cause expansion or decomposition leading to violent rupture of containers.
	On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke.
	Mists containing combustible materials may be explosive. Combustion products include: carbon dioxide (CO2)
	other pyrolysis products typical of burning organic material. May emit poisonous fumes.

6. ACCIDENTAL RELEASE MEASURES

0. AUGIDENTAL RELEASE MEASURES	
Personal precautions, protective	See section 8
equipment and emergency procedures	
Environmental precautions	See section 12
Methods and material for containment	
and cleaning up	
Minor Spills	Remove all ignition sources.
	Clean up all spills immediately.
	Avoid breathing vapours and contact with skin and eyes.
	Control personal contact with the substance, by using protective equipment.
	Contain and absorb spill with sand, earth, inert material or vermiculite.
	Wipe up.



Major Spills

Place in a suitable, labelled container for waste disposal. Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

7. HANDLING AND STORAGE

Precautions for safe handling	
Safe handling	Avoid all personal contact, including inhalation.
-	Wear protective clothing when risk of exposure occurs.
	Use in a well-ventilated area.
	Prevent concentration in hollows and sumps.
	DO NOT enter confined spaces until atmosphere has been checked.
	Avoid smoking, naked lights or ignition sources.
	Avoid contact with incompatible materials.
	When handling, DO NOT eat, drink or smoke.
	Keep containers securely sealed when not in use.
	Avoid physical damage to containers.
	Always wash hands with soap and water after handling.
	Work clothes should be laundered separately.
	Use good occupational work practice.
	Observe manufacturer's storage and handling recommendations contained within this SDS.
	Atmosphere should be regularly checked against established exposure
	standards to ensure safe
	working conditions.
	DO NOT allow clothing wet with material to stay in contact with skin
Other information	Store in original containers.
	Keep containers securely sealed.
	No smoking, naked lights or ignition sources.



Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for

leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities Storage incompatibility

Avoid reaction with oxidising agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters				
Occupational Exposure Limits (OEL)		Not Available		
Emergency Limits				
Ingredient	TEEL-1		TEEL-2	TEEL-3
Product	Not Availa	able	Not Available	Not Available
Exposure controls				
Appropriate engineering controls Each operation ventilation so the operation.		should be provided with con at air movement is always f entilation requires make-up aced air.	rom ordinary work areas to	
Individual protection measures				
Respiratory protection		143:2000 & 149: respirators shou unknown vapour be warned to lea any odours thro mask is not fund high, or that the limitations, only appropriate. Car should be chang that the humidit used for 4 hr. U the length of tim	r of sufficient capacity. (AS/NZS 1716 & 1715, EN 2001, ANSI Z88 or national equivalent) Cartridge ald never be used for emergency ingress or in areas of r concentrations or oxygen content. The wearer must ave the contaminated area immediately on detecting ugh the respirator. The odour may indicate that the ctioning properly, that the vapour concentration is too e mask is not properly fitted. Because of these restricted use of cartridge respirators is considered tridge performance is affected by humidity. Cartridges ged after 2 hr of continuous use unless it is determined cy is less than 75%, in which case, cartridges can be sed cartridges should be discarded daily, regardless of	
safety gumboo only depend or		protective gloves, e.g. PVC. s, e.g. Rubber The selection the material, but also on fur facturer to manufacturer. W	of suitable gloves does not ther marks of quality which	



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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. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- \cdot frequency and duration of contact,
- · chemical resistance of glove material,
- · glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

 \cdot When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.

 \cdot When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. \cdot Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.

 Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as:

- \cdot Excellent when breakthrough time > 480 min
- \cdot Good when breakthrough time > 20 min
- \cdot Fair when breakthrough time < 20 min

· Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most

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	 appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Eye protection	Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
	Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption
	and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in
	their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed
	at the first signs of eye redness or irritation – lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].
Skin and body protection	Wear safety footwear or safety gumboots, e.g. Rubber. Overalls. P.V.C. apron.
Hygiene measures	Wash hand thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	Liquid
Color	Black
Odor	Not Available
Odor threshold	Not Available
рH	Not Available
Melting point	Not Available
Boiling point	Not Available
Flash point	64.7
Evaporation rate	Not Available
Flammability(Solid,Gas)	Not Applicable

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Flammability or explosive limits	
LOWER LIMIT	Not Available
UPPER LIMIT	Not Available
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	0.955
Solubility(ies)	Not Available
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	Not Available

10. STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Stable under normal conditions of use.
	Product is considered stable.
	Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5



11. TOXICOLOGICAL INFORMATION	
Information on toxicological effects	
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	 Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye Chronic	If applied to the eyes, this material causes severe eye damage. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility.

Ingredient	TOXICITY	IRRITATION
As a product	Not Available	Not Available

12. ECOLOGICAL INFORMATION

Ingredient Endpoint Test Duration (hr) Species Value	Toxicity				
As a graduat Net Available Net Available Net Available Net Available	Ingredient	Endpoint	Test Duration (hr)	Species	Value
As a product Not Available Not Available Not Available Not Available	As a product	Not Available	Not Available	Not Available	Not Available

DO NOT discharge into sewer or waterways.

Persistence and degradability

No Data available for all ingredients

Bioaccumulative potential

No Data available for all ingredients

Mobility in soil

No Data available for all ingredients

13. DISPOSAL CONSIDERATIONS



Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by
	country, state and/ or territory. Each user must refer to laws
	operating in their area. In some areas, certain wastes must be tracked.
	A Hierarchy of Controls seems to be common – the user should
	investigate:
	Reduction
	Reuse
	Recycling
	Disposal (if all else fails)
	This material may be recycled if unused, or if it has not been
	contaminated so as to make it unsuitable for its intended use. If it has
	been contaminated, it may be possible to reclaim the product by
	filtration, distillation or some other means. Shelf life considerations
	should also be applied in making decisions of this type. Note that
	properties of a material may change in use, and recycling or reuse may
	not always be appropriate.
	DO NOT allow wash water from cleaning or process equipment to
	enter drains.
	It may be necessary to collect all wash water for treatment before
	disposal.
	In all cases disposal to sewer may be subject to local laws and
	regulations and these should be considered first.
	Where in doubt contact the responsible authority.
	Recycle wherever possible or consult manufacturer for recycling
	options.
	Consult State Land Waste Authority for disposal.
	Bury or incinerate residue at an approved site.
	Recycle containers if possible, or dispose of in an authorised landfill.

14. TRANSPORT INFORMATION

Land transport (UN) Air transport (ICAO-IATA / DGR) Sea transport (IMDG-Code / GGVSee) Marine Pollutant Transport in bulk according to Annex II of MARPOL and the IBC code NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS. NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS. NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS. No

Not Applicable.

15. REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture Additional Regulatory Information Not Applicable.

16. OTHER INFORMATION



Literature References Other data

SDS of raw material

The information suggested in this Safety Data Sheet does not comprehend everything and should be adopted only as a guide. The accuracy of the information and recommendations suggested herein are credible. However the company makes no warranty regarding such information and recommendations and disclaims all liability for reliance thereon.

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