ALLIANCE
ORGANICS LLP
Dyestuffs • Pigments • Food Colours
2 STAR EXPORT HOUSE
(GOVT. OF INDIA RECOGNISED)

16/17, 3rd Floor, Kamdhenu Industrial Estate, Mindspace,
Malad West, Mumbai 400064, India
Tel : 91-22-42957551,28725721,28725731
Fax : +91 22 28725721
Email : sales@allianceorganics.com
Website: www.allianceorganics.com

MATERIAL SAFETY DATA SHEET

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

1.1 Product Details

Product Name : **BASIC YELLOW 40**
CAS Number: 29556-33-0
EC number : 249-694-9

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

Relevant identified Uses of the substance:

Sector of Use (SU)

SU 1: Agriculture, forestry and fishing
SU 5: Manufacture of textiles, leather, fur
SU 6b: Manufacture of pulp, paper and paper products
SU 7: Printing and reproduction of recorded media
SU 9: Manufacture of fine chemicals
SU 11: Manufacture of rubber products
SU 12: Manufacture of plastics products, including compounding and conversion
SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement
SU 19: Building and construction work
SU 23: Electricity, steam, gas water supply and sewage treatment
SU 24: Scientific research and development

Product category (PC)

PC 1: Adhesives, sealants
PC 3: Air care products
PC 9a: Coatings and paints, thinners, paint removes
PC 9b: Fillers, putties, plasters, modelling clay
PC 13: Fuels
PC 18: Ink and toners
PC 20: Products such as pH-regulators, flocculants, precipitants, neutralisation agents
PC 21: Laboratory chemicals
PC 23: Leather tanning, dye, finishing, impregnation and care products
PC 26: Paper and board dye, finishing and impregnation products: including bleaches and other processing aids
PC 28: Perfumes, Fragrances
PC 29: Pharmaceuticals
PC 32: Polymer preparations and compounds
PC 33: Semiconductors
PC 34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids
PC 35: Washing and cleaning products (including solvent based products)
PC 36: Water softeners
PC 37: Water treatment chemicals
PC 0: Other: PC 19: Intermediate

Process category (PROC)

PROC 1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
PROC 2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC 3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions
PROC 4: Chemical production where opportunity for exposure arises
PROC 5: Mixing or blending in batch processes
PROC 6: Calendering operations

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PROC 7: Industrial spraying
PROC 8a: Transfer of substance or mixture (charging and discharging) at nondedicated facilities
PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC 9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC 10: Roller application or brushing
PROC 13: Treatment of articles by dipping and pouring
PROC 14: Tabletting, compression, extrusion, pelletisation, granulation
PROC 15: Use as laboratory reagent
PROC 20: Use of functional fluids in small devices
PROC 22: Manufacturing and processing of minerals and/or metals at substantially elevated temperature
- PROC 24: High (mechanical) energy work-up of substances bound in/on materials and/or articles
PROC 21: Low energy manipulation of substances bound in materials and/or articles
PROC 26: Handling of solid inorganic substances at ambient temperature
PROC28: Manual maintenance (cleaning and repair) of machinery

Environmental release category (ERC)

ERC 1: Manufacture of the substance
ERC2: Formulation into mixture
ERC3: Formulation into solid matrix
ERC 4: Use of non-reactive processing ads at industrial site (no inclusion into or onto
ERC5: Use at industrial site leading to inclusion into/onto article
ERC6b: Use of reactive processing aid at industrial site (no inclusion into or onto article)
ERC7: Use of functional fluid at industrial site
ERC 8c: Widespread use leading to inclusion into/onto article (indoor)
ERC 9a: Widespread use of functional fluid (indoor)
ERC 10a: Widespread use of articles with low release (outdoor)
ERC 11a: Widespread use of articles with low release (indoor)

Article Category (AC)

AC 1: Vehicles
AC 2: Machinery, mechanical appliances, electrical/electronic articles
AC 5: Fabrics, textiles and apparel
AC 6: Leather articles
AC 7: Metal articles
AC 8: Paper articles
AC 10: Rubber articles
AC 11: Wood articles
AC 13: Plastic articles

Uses advised against (where applicable): No relevant information available

1.3 Company Identification

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SECTION 2: Hazards identification

2.1 Classification of the substance

Classification according to Regulation (EC) No : 1272/2008 i.e. CLP regulation

Acute Tox 4 (Oral)
Aquatic Chronic 3

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2.2 Label elements

Signal word: Warning

Hazard statements:

H302: Harmful if swallowed.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

P264: Wash hands and face thoroughly after handling
P273: Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391: Collect spillage.
P501: Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national /international regulations.

2.3 Other hazards : No further information

PBT: The substance is not PBT
vPvB: The substance is not vPvB
SVHC The substance is not listed as SVHC

SECTION 3: Composition/information on ingredients

3.1 Chemical characterization:

CAS No. : 29556-33-0
Identification number(s): EC number: 249-694-9
Additional information: Molecular Formula: $C_{22}H_{24}N_3O_2Cl$
Molecular Weight: 397.904
% Purity : Min. 50%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

After inhalation: If chemical is inhaled, move person into fresh air. Keep at rest. If not breathing, give artificial respiration. Keep under medical surveillance. In case of problems: Hospitalize.

After skin contact: Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before reuse.

After eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, occasionally lifting upper and lower eyelids. Consult an ophthalmologist.

After swallowing: Rinse mouth with water immediately (only if the person is conscious). Seek medical advice. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Harmful, if swallowed, causes eye damage & skin corrosion
Information for doctor: Treat symptomatically and supportively.

4.3 Indication of any immediate medical attention and special treatment needed

Follow instructions given in section 4.1 in case of skin and eye contact.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use fire extinguishing methods suitable to surrounding conditions. Use water spray, alcohol-resistant foam, dry chemical.

Unsuitable extinguishing media: Extinguishing media that must not be used for safety reasons: CO2

5.2 Special hazards arising from the substance

Emits toxic fumes of carbon monoxide and carbon dioxide under fire conditions.

5.3 Advice for firefighters

Protective equipment: Wear proper protective equipment & clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

Additional information: Prevent dust formation due to risk of dust explosion.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: For non-emergency personnel: Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing. Keep unprotected persons away. For emergency responders: Use personal protective equipment. Evacuate personnel to safe areas.

6.2 Environmental precautions: Do not allow product to reach sewage system, drains or any water course. Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Avoid dust formation. Keep in suitable and closed containers for disposal in accordance with applicable laws and regulations. For large spills: Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

6.4 Reference to other sections: 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: Ensure good ventilation/exhaust at the workplace Avoid contact with skin and eyes. Avoid inhalation of dust, vapor or mist. Handle in accordance with good industrial hygiene and safety practice. Do not leave container open

Information about fire- and explosion protection: Keep ignition sources away –Do not smoke. Keep away from combustible material. Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store product in its original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Requirements to be met by storerooms and receptacles: Store product in its original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information about storage conditions: Store in cool, dry conditions in tightly-sealed receptacles; away from direct sunlight.

7.3 Specific end use(s):

Used as a dye for Acrylic Fibres
Used for making Ink
Used for making Fluorescent Pigment

For more details, please refer to section 1.2 above

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: Provide exhaust ventilation or other engineering controls at machinery to keep the airborne concentrations of vapor below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.

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8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

DNELs

Derived No Effect Levels
DNELs for workers:
Long-term - systemic effects:
Dermal: 9.68mg/kg bw/day
Inhalation : 34.1mg/m³
DNELs for the general population
Long-term - systemic effects:
Dermal : 3.46mg/kg bw/day
Inhalation : 5.12mg/m³
Oral : 3.46mg/kg bw/day

PNECs

Predicted No Effect Concentration (PNEC)
PNEC water
PNEC aqua (freshwater): 25.6µg/L .
aqua (marine water 2.56µg/L
aqua (intermittent releases): 0.256mg/L (Fresh water) & 25.6µg/L (Marine water)
PNEC sediment
PNEC sediment (freshwater): 1.51mg/kg sediment dw
PNEC sediment (marine water): 0.151mg/kg sediment dw
PNEC soil
PNEC soil: 0.287mg/kg soil dw
PNEC sewage treatment plant
PNEC STP: No hazard identified

8.2 Exposure controls

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 eyes and skin.

Respiratory protection: Suitable respiratory protective device recommended

Protection of hands: The glove material has to be impermeable and resistant to the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: Chloroprene rubber, CR Nitrile rubber, NBR PVC gloves

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 Face shield.

Body protection: Impervious clothing, Apron ,Boots

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Solid, powder
Colour: Yellow powder
Odour: No data
pH: 6.69 at 34°C (1% w/v solution)
Melting point: 349.84oC (at 101 325 Pa)
Boiling point: Not applicable because the substance is a solid which melts above 300°C
Flashpoint: > 250 °C at 976.2 hPa
Flammability: Not classified
Auto ignition temperature: The chemical does not exhibit auto ignition
Danger of explosion: Not applicable because there are no chemical groups present in the molecule which are associated with explosive properties
Oxidizing properties: No oxidizing property.

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Vapour pressure: Not applicable because the melting point is above 300°C
Density at 20 °C: 1.32 (Relative density)
Solubility in/Miscibility with Water at 20 °C: 14.1 g/L
Partition coefficient(noctanol/water) at 20°C: Log Pow = -1.2
Viscosity: Not applicable

9.2 Other information: Particle size distribution (Granulometry): The median particle size (D50) was determined to be 26.252 µm

SECTION 10: Stability and reactivity

10.1 Reactivity: Reacts with oxidising agents, strong alkalis.

10.2 Chemical stability – Thermal decomposition/con ditions to be avoided: Stable under normal conditions of use and recommended storage conditions. Thermal decomposition: No thermal decomposition when stored and handled correctly.

10.3 Possibility of hazardous reactions: In the case of dusty organic products the possibility of a dust explosion should always be considered.

10.4 Conditions to avoid: Heat, open flames, sparks and other sources of ignition.

10.5 Incompatible materials: Strong oxidizing agents, strong acids and alkalis

10.6 Hazardous decomposition products: carbon monoxide and carbon dioxide, nitrogen & sulphur oxides (NOx) under fire conditions

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD/LC50 values relevant for classification:

Oral	LD50	> 300 to < 2000 mg/kg bw (Wistar Rat, female)
Inhalation	LC50 (6 hours)	No data
Dermal	LD50	> 2000 mg/kg bw (Wistar Rat, male & female)

skin corrosion/irritation: Not irritating /corrosive
serious eye damage/irritation: Category 1 – Not irritating to the eyes
Sensitization: Not sensitizing
Germ cell mutagenicity: Not mutagenic in the Salmonella typhimurium reverse mutation assay and the Escherichia coli reverse mutation assay.
Carcinogenicity: Not listed as a carcinogen by IARC
Reproductive toxicity: No Observed Adverse Effect Level (NOAEL) is considered 1000 mg/kg body weight (From analogue chemical)
Developmental toxicity: No data available
Repeated exposure: No Observed Adverse Effect Level (NOAEL) is considered 1000 mg/kg body weight (From analogue chemical)
Aspiration hazard: No data

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	LC50 (96 hrs) Fish	> 100 mg/L (Danio rerio)
	EC50 (48 hrs)	2.10 mg/L (Daphnia magna)
	ErC50 (72 hrs)	1.6 mg/L (Pseudokirchneriella subcapitata)

12.2 Persistence and degradability: Not inherently biodegradable

12.3 Bio-accumulative potential: The bioconcentration factor (BCF value) was determined to be 44 and 161 L/Kg at a conc. of 0.2 mg/l and 17 and 125 L/Kg at a conc. of 0.02 mg/l, respectively in fish (From analogue chemical)

12.4 Mobility in soil: Log Koc value obtained was 2.7434 dimensionless at 25°C. This means that the chemical has moderate sorption to soil and sediments and therefore has slow migration potential to ground water.

Additional ecological information: General notes:

Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

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12.5 Results of PBT and vPvB assessment: PBT The substance is not PBT
vPvB The substance is not vPvB

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation The generation of waste should be avoided or minimized wherever possible. Incinerate according to applicable local, state and federal regulations.
European waste catalogue: 07 03: Wastes from the Manufacture, Formulation, Supply and Use (MFSU) of organic dyes and pigments.
Un-cleaned packaging:
Contaminated packaging: Empty containers must be decontaminated before returning for recycling
Recommendation: Do not release into the environment. Destroy packaging by incineration at an approved waste disposal site in accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN-Number ADR,IMDG,IATA: UN 3143

14.2 UN proper shipping name ADR IMDG,IATA: UN 3077, Environmentally hazardous substance, Solid, n.o.s. 2-[[4-[ethyl(2- hydroxyethyl)amino]phenyl]azo]-6-methoxy-3-methylbenzothiazolium methyl sulphate

14.3 Transport hazard class(es) ADR, IMDG, IATA**:** Class: 9 Label: 9

14.4 Packing group ADR,IMDG,IATA: Packing Group: III

14.5 Environmental hazards: Marine Pollutant: Yes Special marking (ADR): Symbol (fish and tree) Special marking (IATA): Symbol (fish and tree)

14.6 Special precautions for user Notapplicable: EmS Code: F-A, S-F Environmentally hazardous substance

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

Transport: Additional Information
Transport category Tunnel restriction code: 3 E (Environmentally hazardous); Keep separated from foodstuffs, Toxic.
UN "Model Regulation" UN 3077, Environmentally hazardous substance, Solid, n.o.s. 2-[[4-[ethyl(2-hydroxyethyl)amino]phenyl]azo]-6-methoxy-3-methylbenzothiazolium methyl sulphate, 9, III

SECTION 15: Regulatory information

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

Labeling according to Regulation(EC)No: 1272/2008
Hazard pictograms: Please refer section 2
Signal word: Please refer section 2
Hazarddetermining components of labelling: Please refer section 2
Hazard statements: Please refer section 2
Precautionary statements: Please refer section 2

National regulations:

International Inventories

Canada : Canada's DSL List: Listed
US Federal (TSCA Inventory) : Listed
Australian Inventory of Chemical Substances (AICS): Listed
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): substance - Not listed. •
China: Inventory of Existing Chemical Substances in China (IECSC) – Listed
Japan: Inventory of Existing and New Chemical Substances (ENCS) – Listed
Korea: Existing Chemicals List (ECL) – Listed
New Zealand: New Zealand Inventory – Listed
Philippines: Philippine Inventory of Chemicals and Chemical Substances(PICCS) – Listed

Substances of very high concern (SVHC) according to REACH, Article57: The substance is not listed as SVHC

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15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other information

Department issuing MSDS: Product safety department.

16 (a). Data compared to the previous version altered:

Section 1: Identification of the substance/mixture and of the company/undertaking
Section 2: Hazards identification
Section 8: Exposure Controls/Personal protection
Section 9: Physical and Chemical properties.
Section 11: Toxicological Information.
Section 12: Ecological Information.
Section 14: Transport Information
Section 15: Regulatory Information
Section 16: Other Information

16 (b). 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)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européensur 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 Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

16 (c). Sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

16 (d). Additional Information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.
The information given and the recommendations made herein apply to our product alone and not combined with other products. Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchasers' responsibility before using any product to verify these data under their own operating conditions and to determine if the product is suitable for their purposes.