

SAFETY DATA SHEET

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2.5

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product code **DP26387**
Product name **Yellow**
Product category **Optimizer M64**

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

Recommended use **Printing operations**

1.3 Details of the supplier of the safety data sheet

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1.4 Emergency telephone number

Giftinformationszentrum Mainz, Germany
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Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 1 - (H318)
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2.2 Label elements



Signal Word
Danger

Hazard Statements

H318 - Causes serious eye damage

Precautionary Statements

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing
P280 - Wear protective gloves/protective clothing/eye protection/face protection

2.3 Other Hazards

General Hazards No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Component	EC No.	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH No.	Note
Diethylene glycol diethyl ether	203-963-7	112-36-7	30 - 60	Eye Irrit. 2 (H319)	01-2119969946-13-xxxx	
Butyrolactone	202-509-5	96-48-0	10 - 30	Acute Tox. 4 (H302) Eye Dam. 1 (H318) STOT SE 3 (H336)	01-2119471839-21-xxxx	1
Dipropylene glycol monomethyl ether	252-104-2	34590-94-8	5 - 10	Not Classified	01-2119450011-60-xxxx	1
Propylene carbonate	203-572-1	108-32-7	1 - 5	Eye Irrit. 2 (H319)	01-2119537232-48-xxxx	1

Note

REACH No: Registration number(s) may not be provided because substance(s) are exempted or not yet required to be registered under REACH
1. Substance with a Community workplace exposure limit

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

None under normal use conditions.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Foam. Carbon dioxide (CO₂). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

6.4 Reference to other sections

See Section 12 for more information.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children.

7.3 Specific end use(s)

Exposure scenario	No information available.
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters**Exposure limits**

Component	European Union
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 50 ppm TWA: 308 mg/m ³ Skin
Component	The United Kingdom
Dipropylene glycol monomethyl ether 34590-94-8	STEL: 150 ppm STEL: 924 mg/m ³ TWA: 50 ppm TWA: 308 mg/m ³ Skin
Component	France
Dipropylene glycol monomethyl ether	TWA/VME: 50 ppm restrictive limit

34590-94-8	TWA/VME: 308 mg/m ³ restrictive limit Skin
Component	Germany
Butyrolactone 96-48-0	Skin
Dipropylene glycol monomethyl ether 34590-94-8	TWA/MAK: 50 ppm TWA/MAK: 310 mg/m ³ TWA/AGW: 50 ppm TWA/AGW: 310 mg/m ³ Peak: 50 ppm Peak: 310 mg/m ³
Propylene carbonate 108-32-7	TWA/MAK: 2 ppm TWA/MAK: 8.5 mg/m ³ TWA/AGW: 2 ppm TWA/AGW: 8.5 mg/m ³ Peak: 2 ppm Peak: 8.5 mg/m ³
Component	Spain
Dipropylene glycol monomethyl ether 34590-94-8	TWA/VLA-ED: 50 ppm TWA/VLA-ED: 308 mg/m ³ Skin
Component	Italy
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 50 ppm TWA: 308 mg/m ³ Skin
Component	Portugal
Dipropylene glycol monomethyl ether 34590-94-8	TWA/VLE-MP: 50 ppm TWA/VLE-MP: 308 mg/m ³ STEL/VLE-CD: 150 ppm Skin
Component	The Netherlands
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 300 mg/m ³
Component	Finland
Butyrolactone 96-48-0	TWA: 50 ppm TWA: 14 mg/m ³ STEL: 250 ppm STEL: 70 mg/m ³ Skin
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 50 ppm TWA: 310 mg/m ³ Skin
Component	Denmark
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 50 ppm TWA: 309 mg/m ³ Skin
Component	Austria
Dipropylene glycol monomethyl ether 34590-94-8	STEL/KZW: 100 ppm STEL/KZW: 614 mg/m ³ TWA/TMW: 50 ppm TWA/TMW: 307 mg/m ³ Skin
Component	Switzerland
Dipropylene glycol monomethyl ether 34590-94-8	TWA/MAK: 50 ppm aerosol, vapour TWA/MAK: 300 mg/m ³ aerosol, vapour STEL/KZW: 50 ppm aerosol, vapour STEL/KZW: 300 mg/m ³ aerosol, vapour
Propylene carbonate 108-32-7	TWA/MAK: 6 ppm TWA/MAK: 25.5 mg/m ³ STEL/KZW: 6 ppm STEL/KZW: 25.5 mg/m ³
Component	Poland
Dipropylene glycol monomethyl ether 34590-94-8	TWA/NDS: 240 mg/m ³ STEL/NDSch : 480 mg/m ³
Component	Norway
Dipropylene glycol monomethyl ether	TWA: 50 ppm

34590-94-8	TWA: 300 mg/m ³ Skin
Component	Ireland
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 50 ppm TWA: 308 mg/m ³ STEL: 150 ppm STEL: 924 mg/m ³ Skin

Component	Australia TWA
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 50 ppm TWA: 308 mg/m ³

Derived No Effect Level (DNEL)

Component	DNEL - Dermal (Workers)	DNEL - Inhalation (Workers)
Diethylene glycol diethyl ether 112-36-7	3.43 mg/kg (Systemic long term)	50.05 mg/m ³ (Systemic long term)
Butyrolactone 96-48-0	19 mg/kg (Systemic long term)	130 mg/m ³ (Systemic long term) 958 mg/m ³ (Systemic acute/short term)
Dipropylene glycol monomethyl ether 34590-94-8	283 mg/kg (Systemic long term)	308 mg/m ³ (Systemic long term)
Propylene carbonate 108-32-7	20 mg/kg (Systemic long term)	70.53 mg/m ³ (Systemic long term) 20 mg/m ³ (Local long term)

Predicted No Effect Concentration (PNEC) No information available.

8.2 Exposure controls

Engineering Measures

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles). If splashes are likely to occur: Wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye Protection

Safety glasses with side-shields. Goggles. Face-shield. Avoid contact with eyes. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hand Protection

Chemical resistant protective gloves.
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
Due to different glove types, the manufacturer's directions for use should be observed. Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Liquid	Appearance	Colored
Odor	No information available	Odor Threshold	No information available
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH		No data available	
Melting Point / Freezing Point		No data available	
Boiling Point / Boiling Range	> 149 °C / 300 °F		
Flash Point	64 °C / 147 °F	Closed cup (Minimum)	
Evaporation rate		No data available	
Flammability Limit in Air			
Upper flammability limit		No data available	
Lower flammability limit		No data available	
Vapor Pressure		No data available	
Vapor Density		No data available	
Specific Gravity	0.96		
Water Solubility		No data available	
Solubility in other solvents		No data available	
Partition coefficient: n-octanol/water		No data available	
Autoignition Temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	
Explosive Properties	No data available		
Oxidizing Properties	No data available		

9.2 Other information

Softening Point No data available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of Hazardous Reactions

None under normal processing.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO₂). Carbon monoxide.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Inhalation	Specific test data for the substance or mixture is not available.
Eye Contact	Specific test data for the substance or mixture is not available.
Skin Contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 5,000.00

Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component	Oral LD50
Diethylene glycol diethyl ether 112-36-7	= 4970 mg/kg (Rat)
Butyrolactone 96-48-0	= 1540 mg/kg (Rat)
Dipropylene glycol monomethyl ether 34590-94-8	= 5.35 g/kg (Rat)
Propylene carbonate 108-32-7	= 29000 mg/kg (Rat)

Component	Dermal LD50
Butyrolactone 96-48-0	> 5640 mg/kg (Rabbit)
Dipropylene glycol monomethyl ether 34590-94-8	= 9500 mg/kg (Rabbit)
Propylene carbonate 108-32-7	> 3000 mg/kg (Rabbit)

Component	Inhalation LC50
Butyrolactone 96-48-0	> 5100 mg/m ³ (Rat) 4 h

Skin corrosion/irritation	Specific test data for the substance or mixture is not available.
Eye damage/irritation	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components).

Sensitization	Specific test data for the substance or mixture is not available.
Mutagenic Effects	Specific test data for the substance or mixture is not available.
Carcinogenic effects	Specific test data for the substance or mixture is not available.
Reproductive Effects	Specific test data for the substance or mixture is not available.
STOT - single exposure	Specific test data for the substance or mixture is not available.
STOT - repeated exposure	Specific test data for the substance or mixture is not available.
Aspiration hazard	Specific test data for the substance or mixture is not available.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Specific test data for the substance or mixture is not available.

Unknown Aquatic Toxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Component	Algae/aquatic plants
Butyrolactone 96-48-0	96h EC50 <i>Desmodesmus subspicatus</i> : = 79 mg/L 72h EC50 <i>Desmodesmus subspicatus</i> : = 360 mg/L
Propylene carbonate 108-32-7	72h EC50 <i>Desmodesmus subspicatus</i> : > 500 mg/L

Component	Fish
Butyrolactone 96-48-0	96h LC50 <i>Lepomis macrochirus</i> : = 56 mg/L [static]
Dipropylene glycol monomethyl ether 34590-94-8	96h LC50 <i>Pimephales promelas</i> : > 10000 mg/L (static)
Propylene carbonate 108-32-7	96h LC50 <i>Cyprinus carpio</i> : > 1000 mg/L (semi-static)

Component	Crustacea
Butyrolactone 96-48-0	48h EC50 <i>Daphnia magna</i> Straus: > 500 mg/L
Dipropylene glycol monomethyl ether 34590-94-8	48h LC50 <i>Daphnia magna</i> : = 1919 mg/L
Propylene carbonate 108-32-7	48h EC50 <i>Daphnia magna</i> : > 500 mg/L

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

Component	Partition coefficient
Butyrolactone 96-48-0	-0.566
Dipropylene glycol monomethyl ether 34590-94-8	-0.064
Propylene carbonate 108-32-7	0.48

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects.

No information available.

Section 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Waste from residues/unused products	Contain and dispose of waste according to local regulations.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14: TRANSPORT INFORMATION

Note: This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

ADR
14.2 Proper Shipping Name

Not Regulated
Printing Ink

ICAO / IATA / IMDG / IMO
14.2 Proper Shipping Name

Not Regulated
Printing Ink**Section 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union****International Inventories**

For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor)

15.2 Chemical Safety Assessment

No information available.

Section 16: OTHER INFORMATION**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under sections 2 and 3**

H302 - Harmful if swallowed
H318 - Causes serious eye damage
H319 - Causes serious eye irritation

—
H336 - May cause drowsiness or dizziness

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet