

Manufacturer:

Dymax®

**Product Name:** Dymax OP-60 Optical Positioning UV Adhesive (30ml)

Manufacturer Part Number: OP-60-30ML

Click here for more details on the Dymax OP-60 Optical Positioning UV Adhesive (30ml)

| This safety data s  | SAFETY DATA SHEET<br>heet was created pursuant to the requirements of: GB/T   | 9<br>16483, GB/T 17519   |
|---|---|--|
| Adhesives   | OP-60   |  |
| Issuing Date 31-Aug-2023  | Revision date 31-Aug-2023   | Revision Number 33   |
| 1. Identification   |   |  |
| Product identifier  |   |  |
| Product Name  | OP-60   |  |
| Other means of identification   |   |  |
| Pure substance/mixture<br>Details of the supplier of the safe   | Mixture<br>ty data sheet  |  |
| Manufacturer / Supplier<br>Dymax Corporation<br>318 Industrial Lane<br>Torrington, CT 06790<br>Tel: 860-482-1010<br>Fax: 860-496-0608 | Hanarey Chemicals (Shanghai) Co., Ltd<br>No.111, Muhua Road<br>Fengxian District<br>Shanghai, China<br>Tel: +86 21 3758 5098<br>ZIP: 201507 | Dymax Asia Pacific Pte Ltd.<br>Block 5008 (East Wing)<br>Ang Mo Kio Ave. 5<br>#05-3 TECHplace II<br>Singapore 569874<br>Tel: +65-6752-2887<br>Fax: +65-6752-2813 |
| E-mail address<br>Product_Regulatory_Asia@dymax.c   | com   |  |
| Emergency telephone number<br>400-6267911 (24hrs)   |   |  |
| China 400-6267911 (Mandarin)  | Hong Kong 800-968-793 (Cantonese) Philipp   | <b>Dines</b> 1-800-1-116-1020  |
| Recommended use of the chemic   | al and restrictions on use  |  |
| Recommended use   | No information available  |  |
| Restrictions on use   | Other usages expect recommendation use.   |  |
| Uses advised against  | Consumer use.   |  |
| 2. Hazard(s) identification   | 1   |  |
|   | Emergency Overview<br>Irritating to skin<br>Risk of serious damage to eyes<br>May cause allergic skin reaction                              |  |
| Appearance opaque   | Physical state Liquid   | Odor Characteristic  |
| Classification of the substance or  | mixture   |  |
| Acute toxicity - Oral<br>Skin corrosion/irritation  |   | Category 5<br>Category 2   |
|   | I   |  |

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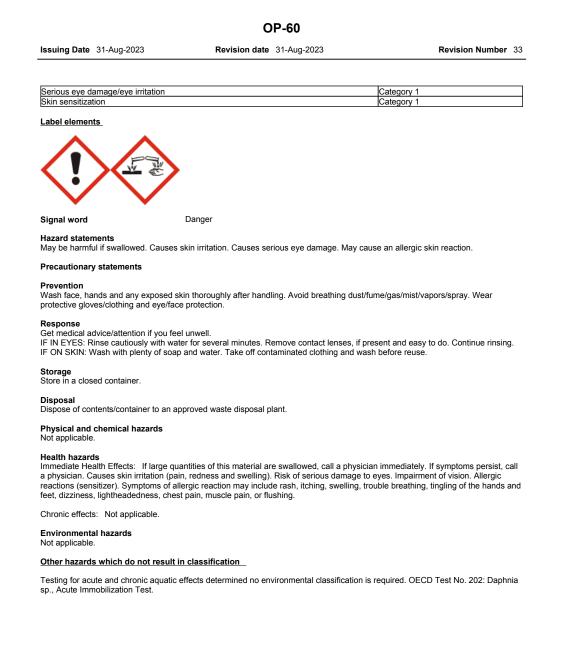
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### 3. Composition/information on ingredients

#### Substance

Not applicable

#### Mixture

| Chemical name          | CAS No.     | Weight-% |
|------------------------|-------------|----------|
| N,N-Dimethylacrylamide | 2680-03-7   | 5-<10    |
| Alkyl acrylate         | Proprietary | 1 -<3    |
| Acrylic Acid           | 79-10-7     | 1 -<3    |
| Visible photoinitiator | Proprietary | 1 -<3    |
| Photoinitiator         | Proprietary | 1 -<3    |
| Silane Coupling Agent  | Proprietary | 0.1-<1   |
| Sodium Hydroxide       | 1310-73-2   | 0.1-<1   |

#### 4. First-aid measures

#### Description of necessary first aid measures

#### General advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

#### Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.

#### Skin contact

Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

#### Eve contact

Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

# Most important symptoms/effects, acute and delayed Burning sensation. Itching. Rashes. Hives.

### For emergency responders

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### Note to physicians

May cause sensitization in susceptible persons. Treat symptomatically.

### 5. Fire-fighting measures

Extinguishing media

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical or CO2.

Unsuitable extinguishing media

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## **OP-60** Issuing Date 31-Aug-2023 Revision date 31-Aug-2023 Revision Number 33 Do not scatter spilled material with high pressure water streams. Specific hazards arising from the chemical Product is or contains a sensitizer. May cause sensitization by skin contact. Hazardous combustion products Carbon dioxide (CO2), Carbon monoxide, Hydrocarbons, Nitrogen oxides (NOx), <u>Special protective actions for fire-fighters</u> Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. 6. Accidental release measures Personal precautions, protective equipment and emergency procedures Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak Other information Refer to protective measures listed in Sections 7 and 8. Environmental precautions Prevent further leakage or spillage if safe to do so. Methods and material for containment and cleaning up Methods for containment Prevent further leakage or spillage if safe to do so. Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust), Take up mechanically, placing in appropriate containers for disposal Precautions to prevent secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations. Reference to other sections See section 8 for more information. See section 13 for more information. Section 7: Handling and storage, including how the chemical may be safely used Precautions for safe handling Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Protect from light. General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Reference to other sections See Section 8 for information on appropriate personal protective equipment.

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#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Protect from light.

#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

| Chemical name    | China                                | ACGIH TLV                    |
|------------------|--------------------------------------|------------------------------|
| Acrylic Acid     | TWA: 6 mg/m <sup>3</sup>             | TWA: 2 ppm                   |
|                  | Skin*                                | S*                           |
| Sodium Hydroxide | Ceiling: 2 mg/m <sup>3</sup> Ceiling | Ceiling: 2 mg/m <sup>3</sup> |

Note: See section 16 for terms and abbreviations.

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

# Monitoring and observation processes No applicable information was found.

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

#### General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Hand protection

Wear suitable gloves. Nitrile rubber, Butyl rubber.

Eye/face protection Tight sealing safety goggles.

### Skin and body protection

Wear suitable protective clothing. Long sleeved clothing.

#### Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

#### 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Appearance:

Liquid opaque

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|---------------------------------|--|--|-------------|--|-----------------|----|
| Color:                          |  | light yellow   |             |  |                 |    |
| Odor:<br>Odor thresho           | ld:  | Characteristic<br>No information available           | e           |  |                 |    |
| Property                        |  | Values   |             | Remarks • Method                                     |                 |    |
| pH:                             |  | No data available                                    |             | No information available                             |                 |    |
| pH (as aqueo                    |  | No data available                                    |             | Not applicable                                       |                 |    |
|                                 | / freezing point:<br>/ boiling range:                | No data available<br>No data available               |             | No information available<br>No information available |                 |    |
| Flash point:                    | / boining range.                                     | 101 °C / 213.8 °F                                    |             | Pensky-Martens Closed Cup                            | (PMCC)          |    |
| Evaporation r                   | ate:   | No data available                                    |             | No information available                             | (1100)          |    |
| Flammability                    | (solid, gas):  | No data available                                    |             | Not applicable                                       |                 |    |
| limits:                         | mability or explosive                                | No data available                                    |             | No information available                             |                 |    |
| limits:                         | mability or explosive                                | No data available                                    |             | No information available                             |                 |    |
| Vapor pressu                    |  | No data available                                    |             | No information available                             |                 |    |
| Relative vapo                   |  | No data available<br>No data available               |             | No information available<br>No information available |                 |    |
| Relative dens<br>Water solubili |  | No data available                                    |             | No information available                             |                 |    |
| Solubility(ies)                 |  | No data available                                    |             | No information available                             |                 |    |
| Partition coef                  |  | No data available                                    |             | No information available                             |                 |    |
| Autoignition t                  |  | 438 °C / 820.4 °F                                    |             | No information available                             |                 |    |
|                                 | on temperature:                                      | No data available                                    |             | No information available                             |                 |    |
| Kinematic vis<br>Dynamic visc   | cosity:  | No data available<br>150,000 cP                      |             | No information available                             |                 |    |
| Other informa                   | ation  |  |             |  |                 |    |
| Explosive pro<br>Oxidizing pro  |  | No information available<br>No information available |             |  |                 |    |
| 10. Stabili                     | ty and reactivity                                    |  |             |  |                 |    |
| Stability                       |  |  |             |  |                 |    |
| Stable under n                  | ormal conditions.                                    |  |             |  |                 |    |
|                                 | hazardous reactions<br>ormal processing.             |  |             |  |                 |    |
| Reactivity<br>No information    | available.   |  |             |  |                 |    |
|                                 | t <b>a</b><br>nechanical impact:<br>tatic discharge: | None.<br>None.                                       |             |  |                 |    |
| Hazardous po<br>None under no   | blymerization<br>brmal processing.                   |  |             |  |                 |    |
| Conditions to                   | <u>avoid</u><br>ght. Heat, flames and sp             | oarks.   |             |  |                 |    |
|                                 | , , , ,  |  |             |  |                 |    |

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Hazardous decomposition products None under normal use conditions

### 11. Toxicological information

#### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document: ATEmix (oral): 2,074.40 mg/kg ATEmix (demal): 7,525.80 mg/kg ATEmix (inhalation-gas): 99,999.00 ppm ATEmix (inhalation-dust/mist): 115.60 mg/l ATEmix (inhalation-vapor): 99,999.00 mg/l

#### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

| mponent Information:   |                      |                       |   |
|------------------------|----------------------|-----------------------|---|
| Chemical name          | Oral LD50            | Dermal LD50           | Inhalation LC50                           |
| N,N-Dimethylacrylamide | = 316 mg/kg (Rat)    | 907mg/kg (Rabbit)     | > 776 ppm (Rat) 1 h                       |
| Alkyl acrylate         | = 5190 mg/kg (Rat)   | = 5000 mg/kg (Rabbit) | -   |
| Acrylic Acid           | = 193 mg/kg (Rat)    | > 2000 mg/kg (Rabbit) | = 11.1 mg/L(Rat)1 h<br>= 3.6 mg/L(Rat)4 h |
| Visible photoinitiator | > 2000 mg/kg ( Rat ) | > 2000 mg/kg ( Rat )  | -   |
| Photoinitiator         | = 1694 mg/kg (Rat)   | = 6929 mg/kg ( Rat )  | -   |
| Silane Coupling Agent  | = 23.5 g/kg (Rat)    | > 2000 mg/kg (Rat)    | > 2.28 mg/L (Rat)6 h                      |
| Sodium Hydroxide       | = 325 mg/kg (Rat)    | = 1350 mg/kg (Rabbit) | -   |

#### Skin corrosion/irritation:

Classification based on data available for ingredients. Irritating to skin.

#### Serious eve damage/eve irritation:

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

Respiratory or skin sensitization: May cause sensitization by skin contact

Germ cell mutagenicity: Not classified. Based on available data, the classification criteria are not met.

#### Carcinogenicity:

| The table below indicates whether each agency has | s listed any ingredient as a carcinogen. |          |
|---|--|----------|
| Chemical name                                     | China                                    | IARC     |
| Alkyl acrylate                                    | -  | Group 2B |
| Acrylic Acid                                      | -  | Group 3  |
| 1 I   |  |          |

Legend:

IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans

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Reproductive toxicity: Not classified. Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure): Not classified. Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Not classified. Based on available data, the classification criteria are not met.

Target organ effects: Respiratory system. Eyes. Skin.

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Aspiration hazard: No information available.

### 12. Ecological information

#### Ecotoxicity

#### Product Information

Testing for acute and chronic aquatic effects determined no environmental classification is required. OECD Test No. 202: Daphnia sp., Acute Immobilization Test.

| Chemical name          | Algae/aquatic plants           | Fish                             | Crustacea                    |
|------------------------|--------------------------------|----------------------------------|------------------------------|
| N,N-Dimethylacrylamide | -                              | LC50: >100mg/L 96h               | EC50 > 120 mg/l 48 h         |
|                        |                                | (Oncorhynchus mykiss)            | (Daphnia magna)              |
| Acrylic Acid           | EC50: =0.04mg/L                | LC50: =222mg/L (96h, Brachydanio | EC50:=95mg/L (48h, Daphnia   |
|                        | (72h, Desmodesmus subspicatus) | rerio) NOEC: >= 10.1mg/L (45d,   | magna)                       |
|                        | EC50: =0.17mg/L                | Oryzias latipes, OECD 210)       | NOEC: =3.8mg/L (21d, Daphnia |
|                        | (96h, Pseudokirchneriella      |                                  | magna)                       |
|                        | subcapitata)                   |                                  | -                            |
| Visible photoinitiator | -                              | LC50: >90µg/L                    | -                            |
|                        |                                | (96h, Danio rerio)               |                              |
| Silane Coupling Agent  | EC50 > 536,00 mg/l 72 h        | LC50: >100mg/L                   | EC50 > 876,00 mg/l 48 h      |
|                        | (Scenedesmus subspicatus)      | (96h Danio rerio)                | (Daphnia magna)              |
| Sodium Hydroxide       | -                              | LC50: =45.4mg/L (96h,            | -                            |
| -                      |                                | Oncorhynchus mykiss)             |                              |

Persistence and degradability No information available.

# Bioaccumulative potential There is no data for this product.

#### Component Information

| Chemical name          | Partition coefficient |
|------------------------|-----------------------|
| N,N-Dimethylacrylamide | -0.3                  |
| Alkyl acrylate         | 0.67                  |
| Acrylic Acid           | 0.46                  |
| Visible photoinitiator | 5.8                   |
| Photoinitiator         | 1.62                  |
| Silane Coupling Agent  | 2.1                   |

Mobility in soil No information available.

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|---|---|---|--|
|   |   |   |  |
| Other adverse effects<br>No information available.  |   |   |  |
| 13. Disposal consider   | ations  |   |  |
| <u>Waste chemicals</u><br>Dispose of in accordance with I   | ocal regulations. D   | Dispose of waste in accordance with enviro  | onmental legislation.  |
| Contaminated packaging<br>Empty containers should be tak<br>accordance with local regulation  |   | l waste handling site for recycling or dispo  | sal. Dispose of contents/containers in   |
| 14. Transport informa   | tion  |   |  |
| IMDG  | Not regula  | ated  |  |
| IATA  | Not regula  | ated  |  |
| <u>China</u>  | Not regula  | ated  |  |
| 15. Regulatory inform   | ation   |   |  |
| Safety, health and environme<br>National regulations<br>Catalog of occupational hazard  | ntal regulations/le   | egislation specific for the substance of<br>Listed Chemical hazards<br>Listed Occupational poiso  |  |
| Safety, health and environme<br>National regulations<br>Catalog of occupational hazard<br>Catalog of occupational diseas<br>Chem  | ntal regulations/le   | Listed Chemical hazards<br>Listed Occupational poisc  |  |
| Safety, health and environme<br>National regulations<br>Catalog of occupational hazard<br>Catalog of occupational diseaso<br>Chem<br>Sodium<br>Regulations on the Control o<br>Inventory of hazardous chem  | factors:<br>es:<br>ical name<br>Hydroxide<br>ver Safety of Haza<br>icals<br>dients above the co                               | Listed Chemical hazards<br>Listed Occupational poiso  | oning<br>Category<br>Chemical hazards  |
| Safety, health and environme<br>National regulations<br>Catalog of occupational hazard<br>Catalog of occupational disease<br>Chem<br>Sodium<br>Regulations on the Control o<br>Inventory of hazardous chem<br>The table below indicates ingre<br>Chemical nat<br>Acrylic Acic   | intal regulations/le<br>factors:<br>es:<br>ical name<br>iydroxide<br>ver Safety of Haza<br>icals<br>dients above the co<br>me | Listed Chemical hazards<br>Listed Occupational poiso<br>ardous Chemicals_<br>eut-off threshold considered as relevant wh  | Category<br>Chemical hazards<br>ich are listed. Weight-% 3<br>Serial number<br>0145  |
| National regulations<br>Catalog of occupational hazard<br>Catalog of occupational disease<br>Chem<br>Sodium<br>Regulations on the Control o<br>Inventory of hazardous chem<br>The table below indicates ingre<br>Chemical nat<br>Acrylic Acic<br>Sodium Hydro:  | factors:<br>es:<br>ical name<br>Hydroxide<br>ver Safety of Haza<br>dients above the co<br>ne<br>idde<br>of major hazard in    | Listed Chemical hazards<br>Listed Occupational poise<br>ardous Chemicals<br>sut-off threshold considered as relevant where the second sec | ning<br>Category<br>Chemical hazards<br>iich are listed. Weight-% 3<br>Serial number |
| Safety, health and environme<br>National regulations<br>Catalog of occupational hazard<br>Catalog of occupational disease<br>Chem<br>Sodium<br>Regulations on the Control o<br>Inventory of hazardous chem<br>The table below indicates ingre<br>Chemical nat<br>Acrylic Acic<br>Sodium Hydroz<br>GB 18218-2018 Identification<br>Not applicable. | factors:<br>es:<br>ical name<br>Hydroxide<br>ver Safety of Haza<br>dients above the co<br>ne<br>idde<br>of major hazard in    | Listed Chemical hazards<br>Listed Occupational poiso<br>ardous Chemicals<br>aut-off threshold considered as relevant whether the shold considered as relevant with the shold construct as the shold const | Category<br>Chemical hazards<br>ich are listed. Weight-% 3<br>Serial number<br>0145  |

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|  |                                |   |                                 |    |
| Inventory of highly toxic good<br>Not applicable.  | S                              |   |                                 |    |
| Regulations for Environmenta<br>Chemicals  | I Management on the First Im   | port of Chemicals and th                          | e Import and Export of Toxic    |    |
| List of toxic chemicals severel<br>Not applicable.   | y restricted for import and ex | port in China                                     |                                 |    |
| Measures for the Environment   | al Management of New Chem      | ical Substances                                   |                                 |    |
| IECSC - China Inventory of Exi<br>Complies.  | sting Chemical Substances      |   |                                 |    |
| International Regulations  |                                |   |                                 |    |
| International Inventories<br>AIIC<br>DSL/NDSL<br>EINECS/ELINCS<br>ENCS<br>KECL<br>PICCS<br>NZIOC<br>TCSI<br>TSCA<br>The Montreal Protocol on Subs<br>Not applicable.<br>The Stockholm Convention on<br>Not applicable. |                                | -   |                                 |    |
| The Rotterdam Convention<br>Not applicable.  |                                |   |                                 |    |
| 16 Other information   |                                |   |                                 |    |
| 16. Other information  |                                |   |                                 |    |
| Revision date  | 31-Aug-2023                    |   |                                 |    |
| Revision Note  | The symbol (*) in the ma       | rgin of this SDS indicates                        | that this line has been revised |    |
| Abbreviations and acronyms   |                                |   |                                 |    |
| Legend Section 8: EXPOSUR  | E CONTROLS/PERSONAL PR         | OTECTION  |                                 |    |
| TWA (time-weighted average)  |                                | STEL (Short Term Expo                             | sure Limit)                     |    |
| Ceiling: Maximum limit value   |                                | *: Skin designation                               |                                 |    |
| +: Sensitizers<br>C: Carcinogen  |                                | **: Hazard Designation<br>R*: Reproductive toxica | unt                             | _  |
| M: mutagen   |                                |   |                                 | _  |
|  |                                |   |                                 |    |
| Key literature references and s<br>Agency for Toxic Substances an  |                                | bile the SDS                                      |                                 |    |

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

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EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development Kireening Information Data Set World Health Organization

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End of Safety Data Sheet

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Contact the professionals at Fiber Optic Center for a quote or to get more details.

