

SAFETY DATA SHEET

(GB/T 16483、GB/T 17519)

Product name: SW-8601 Fast Activator

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SECTION 1 Product and company identification

Product name: SW-8601 Fast Activator

Manufacturer: YATU Advanced Materials Co., LTD.

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Product usage: Ancillary for automotive refinishing. Professional use only.

SECTION 2 Hazards identification

Emergency Outline:

Transparent flammable liquid and vapor with slight odor. Its vapor forms explosive mixtures when meets air. May cause combustion and explosion when meets with open flames and high heat. Easy to generate and accumulate static electricity. Fast flow velocity. It may cause eye, nose and throat irritation. May cause central nervous system depression if inhaled.

GHS hazards categories:

Flammable liquids	category 3	H226-flammable liquid and vapour
Acute toxicity (skin)	category 4	H312-harmful in contact with skin
Acute toxicity (inhalation)	category 4	H332-harmful if inhaled
Skin irritation	category 2	H315-causes skin irritation

Eye irritation	category 2	H319-causes serious eye irritation
Reproductive toxicity	category 2	H361-may damage fertility or fetus
Specific target organ toxicity (single exposure)	category 3	H336- may cause respiratory irritation
Acute hazard to the aquatic environment	category 3	H400-very toxic to aquatic life
Long-term aquatic hazard	category 3	H412-harmful to aquatic life with long lasting effects

Label elements:

Hazard pictograms:

**Signal word:** Warning**Precautionary statements:****Prevention:**

P233	Keep container tightly closed.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Use non-sparking tools.
P243	Take action to prevent static discharges.
P241	Use explosive-proof [electrical/ventilating/lighting...] equipment.
P280	Wear protective glove/protective clothing/eye protection/face protection

P261 Avoid breathing dust/fume/gas/mist/vapour/spray.

P273 Avoid release to the environment.

Response to accidents:

P312 Call a POISON CENTER/doctor/...if you feel unwell.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P332+P313 If skin irritation occurs: Get medical advice/attention.

P370+P378 In case of fire: Use...to extinguish.

P391 Collect spillage.

Safe storage:

P403+P235 Store in a well-ventilated place.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to...

Physical and chemical hazards:

Flammable liquid and vapor.

Health hazards:

It is hazardous if inhaled or on skin. It causes skin irritation and severe eye irritation, and it may cause respiration tract irritation.

Environmental hazards:

It is hazardous to aquatic life with long lasting effects.

Section 3 Composition/information on ingredients**Substance /mixture: mixture**

product ingredient:

Chemical name	%	CAS Number
n-Butyl acetate	20-30	123-86-4
Xylene	14-24	1330-20-7
Solvent naphtha (petroleum), light aromatic	1-5	64742-95-6
HDI	<0.1	822-06-0

Section 4 First aid measures**Description of first aid measures:**

Inhalation: Remove to fresh air. Keep person warm and at rest in a position comfortable for breathing.

Skin contact: Take off immediately all contaminated clothing. Rinse skin thoroughly with soap water. If irritation gets worse (redness, rash, blister), get medical attention immediately.

Eye contact: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart. Seek immediate medical advice.

Protection of first-aiders: the rescuer should wear an appropriate mask or self-contained breathing apparatus before enter accident scene.

Notes to physician: the harmful ingredients are displayed in section 3 and 11.

Section 5 Firefighting measures

Extinguishing media:

Use dry chemical, sand, foam or CO₂ extinguishers. Do not use water jet directly.

Special hazards:

Flammable liquid and vapor. Its vapor forms explosive mixtures when meets air. May cause combustion and explosion when meets with open flames and high heat. Fast flow velocity. Easy to generate and accumulate static electricity.

Special firefighting procedure and advice for protection:

Remove and process liquids from fire area in case of environment pollution. Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA), and stand on upwind area for firefighting.

Section 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Be stored in well-ventilated place, and keep away from ignition sources.

Ensure all devices are grounded while they are working.

Emergency responders should wear full protective clothing and self-contained breathing apparatus during clean-up.

Follow the safety regulations.

Environmental precaution:

Avoid discharge into drains and water pipes. Inform the relevant authorities if there are pollutions entering into the rivers, lakes or waterways.

Methods and material for containment and cleaning up:

Small spills: Absorb with activated carbon or other inert material or wash out with lotion made by incombustible dispersant. After diluting, place it in an appropriate waste disposal container.

Large spills: Dike the spilled material and confine the sewers, where this is possible. Cover with foam to prevent evaporation. Collect and transfer spillage with explosive-proof pump, and place in tank trucks or containers for later recycle or disposal.

Section 7 Handling and storage

Precautions for safe handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

The operator should wear antistatic clothing and shoes, and put on rubber oil-resistant gloves.

Workplace should be partial or comprehensive ventilated.

Use explosion-proof ventilation and equipment.

Filling speed should be controlled.

Grounding device is needed to prevent static accumulation.

Loading and unloading should be careful in order to prevent the damage of package and container.

Avoid contact with eyes, skin. Do not breathe mist or vapor.

Eating, drinking and smoking are prohibited in areas where this material is handled, stored and processed.

Conditions for safe storage, including any compatibility:

Store in a cool and well-ventilated warehouse.

Keep away from heat, direct sunlight or any source of ignition. Storage temperature: 0-35°C. Stored in a tightly closed container. Separate from oxidizing materials.

Use explosive lightning and ventilation devices with the switch outside the warehouse. Equipped with corresponding firefighting equipment with certain quality and quantity.

Barrel stacking should not be too large because it must keep a certain distance with wall, ceiling, column and fire inspection walkway.

Use only non-sparking tools and devices.

The storage area should be provided with a leak emergency operation device and appropriate containers.

Section 8 Exposure controls/personal protection**Occupational exposure limits:**

Ingredient name	Maximum allowable concentration	Standard
n-Butyl acetate	PC-STEL: 300mg/m ³ ; PC-TWA: 200mg/m ³	GBZ 2.1 OEL (China)
	STEL: 200ppm; TWA: 150ppm	ACGIH TLV (USA)
Xylene	PC-STEL: 100mg/m ³ ; PC-TWA: 50mg/m ³	GBZ 2.1 OEL (China)
	STEL: 150ppm; TWA: 100ppm	ACGIH TLV (USA)
HDI	PC-STEL: 0.15mg/m ³ ; PC-TWA: 0.03mg/m ³	GBZ 2.1 OEL (China)
	ACGIH-TWA: 0.05ppm	ACGIH TLV (USA)

Methods of monitoring:

Method for determination of toxic substances in the air of workplace: Solvent Analysis-gas chromatography in GBZ/T 160.42, thermal desorption-gas chromatography, non-pump sampling -gas chromatography.

Engineering controls:

As flammable liquid, separated workplace is needed. The operation should be done in a closed place, in order to prevent vapor leaking in the air. Promote ventilation and maintain the airborne concentrations below the occupation exposure limits. Set up automatic alarm and accidental ventilation equipment. Emergency exits and risk-elimination areas are necessary. Set up communication alarm system. Red zone warning line, warning signs and Chinese warning instructions are needed.

Personal protective equipment :

Respiration protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable), a self-absorption filter mask (half mask) must be worn. When emergency rescue or evacuation occurs, workers should wear air respirator or oxygen breathing apparatus.

Eye protection: wear safety goggles with side shields.

Skin/body protection: wear appropriate chemical resistant clothing.

Hand protection: wear rubber oil-resistant gloves.

Section 9 Physical and chemical properties

Appearance and character: transparent and clear mucus.

Boiling point (F): N/A

Flash point (F): 84.2 (closed cup)

Upper/lower flammability or explosive limits:

Flammability limit – lower (%): N/A

Flammability limit – upper (%): N/A

Viscosity (-4 cup, seconds, 30°C): 10-50

VOC (g/L):N/A

Relative density (assume water as 1): 0.98

Solid contents (%): 40-50

Section 10 Stability and reactivity

Stability: The product is stable.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Avoid static electricity, high heat, open flames.

Incompatible materials: Strong acids, strong oxidizing agents, and strong alkali.

Hazardous decomposition products: No hazardous decomposition products are known under the condition of normal use.

Section 11 Toxicological information

Acute toxicity:

Ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation vapor	rat	390ppm	4 hours
	LD50 Dermal	rabbit	> 17600mg/kg	-
	LD50 Oral	rat	10768mg/kg	-
xylene	LD50 Oral	rat	4300mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Oral	mouse	67000mg/kg	-
	LC50 Inhalation vapor	rat	300000mg/m ³	-
HDI	LC50 Inhalation vapor	rat	60mg/m ³	4 hours
	LD50 Oral	rat	710μL/kg	-
	LD50 Oral	rabbit	570μL/kg	-

Irritation/corrosion:

Ingredient name	Exposure pathway	Result	Species	Dose/time	Observation
n-butyl acetate	eye	Moderate irritant	rabbit	100mg	-
	skin	Moderate irritant	rabbit	500mg/24h	-
xylene	eye	Mild irritant	rabbit	87mg	-
	eye	Severe irritant	rabbit	5mg/24h	-
	skin	Mild irritant	rat	60μL/8h	-
	skin	Moderate irritant	rabbit	500mg/24h	-
	skin	Moderate irritant	rabbit	100%	-
Solvent naphtha (petroleum), light aromatic	eye	Mild irritant	rabbit	100μL/24h	-

Reproductive toxicity:

n-butyl acetate: Rat inhaled a minimum toxic concentration (TCL0) of 1500ppm/7h (7-16 days of gestation), which resulting in fetal toxicity and abnormal skeletal development.

Xylene: Rat inhaled a minimum toxic concentration (TCL0) of 200ppm/6h (4-20 days of gestation), which resulting in abnormal skeletal development and neonatal behavior.

Specific target organ toxicity – single exposure:

n-butyl acetate: it affects central nervous system, and may cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure:

N/A.

Aspiration hazards:

May cause nasal and throat irritation. It may cause neurasthenia. The typical symptoms are: headache, drowsiness, nausea, teetering, confusion of consciousness, and unconsciousness.

Ingestion hazard: It may cause gastrointestinal discomfort.

Contact hazards:

It may cause eye irritation or burns, even skin irritation with repeated or long-term contact. Discomfort and dermatitis may occur as well.

Section 12 Ecological information

Ecological toxicity:

Ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 32000µg/L seawater	Crustacean-Artemia salina	48 hours
	Acute LC50 62000µg/L	Fish-Danio rerio	96 hours
Xylene	Acute LC50 8500µg/L seawater	Crustacean-Palaemonetes pugio	48 hours

Acute LC50 13400µg/L freshwater

Fish-Pimephales promelas

96 hours

Persistence and degradability: Not available**Bioaccumulative potential:** Not available**Mobility in soil:** No data available

Section 13 Disposal considerations

Chemical waste treatment methods:

Recommend the treatment method of transferring waste into energy if possible. Incineration or landfill should only be considered when recycling is not feasible. Discharging the product into the sewage is prohibited.

Contaminated package treatment methods:

Empty containers should be taken to an approved waste handling site for recycling or disposal. If not, disposal should be in accordance with applicable regional laws and regulations.

Notes for disposal:

The applicable regional, national regulations should be read before disposal.

Section 14 Transport information

UN number: UN 1263**UN proper shipping name:** Paint, Paint Related Material**Transport hazard class (es):** 3**Hazard pictogram:****Packing group:** III

Package label: flammable liquid

Marine pollutant substances: Not applicable

International shipping regulations:

United States Department of transportation: 49CFR rating: 3 (flammable liquid and vapor).

Marine, IMDG rating: 3 (flammable liquid and vapor).

Shipping, IATA rating: 3 (flammable liquid and vapor).

Notes for transport :

The transportation vehicles shall be equipped with corresponding firefighting equipment and emergency treatment devices.

All transporting trucks should have grounded devices.

It cannot be transported with oxidant and food chemicals.

Transportation should prevent insolation, rain, and high temperature. Morning and evening transport are recommended.

Stay away from fire, heat, high temperature zone when stopover.

The vehicle exhaust pipe must be equipped with a fire retardant device, and use only non-sparking machines and tools for loading and unloading.

Drivers should follow the driven routes. Do not stay in residential areas and densely populated areas. Do not use wooden, cement ships for bulk transportation because it will pollute the ocean if it leaks.

Section 15 Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 311/312

Classification : Fire hazard

Immediate (acute) health hazard

Delayed (chronic) health hazard

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	xylene	1330-20-7	14-24

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Section 16 Other information**Key to abbreviations:**

MAC --Maximum Allowable Concentration: refers to the concentration of toxic chemicals that should not exceed at any time during a working day in the workplace.

PC-TWA -- Permissible Concentration-Time Weighted Average: refers to the average level of allowable contact in the stated working day of 8 hours.

PC-STEL ---Permissible Concentration- Short Term Exposure Limit: refer to the time weighted average for any allowable contact less than 15 minutes within 8 hours.

ACGIH TWA--- American Conference of Governmental Industrial Hygienists- Time weighted average

ACGIH STEL--- American Conference of Governmental Industrial Hygienists- Short Term Exposure Limit

LD₅₀: It refers to lethal dose with oral and dermal exposure. In statistics, it is expected to cause 50% individual deaths in a group of subjects.

LC₅₀: It refers to lethal concentration with respiration inhalation. In statistics, it is expected to cause 50% individual deaths in a group of subjects.

EC₅₀: It refers to the concentration that can cause the 50% of maximal effect.

References:

1. Zhou Guotai, *Hazardous chemicals safety technology*, Chemical Industry Press, 1997.
2. State Environmental Protection Administration of toxic chemicals management & the Beijing Institute of chemical research, *Handbook of Environmental Data for Environmental Regulations*, China Environmental Science Press, 1992.
3. Cheng nenglin, *Solvent Handbook*, Chemical Industry Press, 1994.
4. Canadian Centre for Occupational Health and Safety. CHEMINFO Database, 1989.

Disclaimer:

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products, and to recommend precautionary measures for the storage and handling of the products. The users should have their own ideas about the practical appliance of this MSDS. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the product.