SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 1 / 18	Revision Date 13.01.2021
VCISION OLEK	. agc	TREVISION DUCE ISIONIZUZI

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

Product Identifier

Product Name: SOFTENSIL 5930

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

Relevant applications identified For industrial use

Details of the supplier of the safety data sheet

Company Nanjing SiSiB Silicones Co., Ltd.

Guanghua Sci & Tech Industrial Zone,

No. 104, Guanghua Road, Nanjing 210007, P.R.China

Email: SDS@SiSiB.com

Emergency Telephone Number: +86-25-8468-0091

SECTION 2: Hazardous identification

Classification of the substance or mixture

SUMMARY OF HAZARD IN AN EMERGENCY SITUATION

Liquid.

Mixes with water. Does not burn.

Classification

Eye Damage Category 3, Acute Toxicity (Oral) Category 5, Skin Corrosion/Irritation Category 2B Legend:

1. Classified by Chemwatch; 2. Classification drawn from Catalog of Hazardous Chemical; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements



Hazard pictogram(s)

SIGNAL WORD WARNING

Hazard statement(s)

H303 May be harmful if swallowed.

H316 May be harmful in contact with skin.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P260 Do not breathe mist/vapors/spray.

P264 Wash all exposed external body areas thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

Precautionary statement(s) Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 2 / 18	Revision Date 13.01.2021
VCISION OLIN	114902/10	Nevision Date 15/01/2021

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

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

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

P363 Wash contaminated clothing before reuse.

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorized hazardous or special waste collection point in accordance with any local regulation.

Physical and Chemical Hazard

Liquid.

Mixes with water. Does not burn.

Toxic smoke/fumes in a fire.

Health Hazards

Inhaled

The material is not thought to produce adverse health effects following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Exposure to aliphatic alcohols with more than 3 carbons may produce central nervous system effects such as headache, dizziness, drowsiness, muscle weakness, delirium, CNS depression, coma, seizure, and neurobehavioural changes. Symptoms are more acute with higher alcohols. Respiratory tract involvement may produce irritation of the mucosa, respiratory insufficiency, respiratory depression secondary to CNS depression, pulmonary oedema, chemical pneumonitis and bronchitis. Cardiovascular involvement may result in arrhythmias and hypotension. Gastrointestinal effects may include nausea and vomiting. Kidney and liver damage may result following massive exposures. The alcohols are potential irritants being, generally, stronger irritants than similar organic structures that lack functional groups (e.g. alkanes) but are much less irritating than the corresponding amines, aldehydes or ketones. Alcohols and glycols (diols) rarely represent serious hazards in the workplace, because their vapor concentrations are usually less than the levels which produce significant irritation which, in turn, produce significant central nervous system effects as well.

The odor of isopropanol may give some warning of exposure, but odor fatigue may occur. Inhalation of isopropanol may produce irritation of the nose and throat with sneezing, sore throat and runny nose. The effects in animals subject to a single exposure, by inhalation, included inactivity or anaesthesia and histopathological changes in the nasal canal and auditory canal.

Ingestion

The material can produce severe chemical burns within the oral cavity and gastrointestinal tract following ingestion. Accidental ingestion of the material may be damaging to the health of the individual.

Effects on the nervous system characterise over-exposure to higher aliphatic alcohols. These include headache, muscle weakness, giddiness, ataxia, (loss of muscle coordination), confusion, delirium and coma. Gastrointestinal



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 3 / 18	Revision Date 13.01.2021
--------------	-------------	--------------------------

effects may include nausea, vomiting and diarrhoea. In the absence of effective treatment, respiratory arrest is the most common cause of death in animals acutely poisoned by the higher alcohols. Aspiration of liquid alcohols produces an especially toxic response as they are able to penetrate deeply in the lung where they are absorbed and may produce pulmonary injury. Those possessing lower viscosity elicit a greater response. The result is a high blood level and prompt death at doses otherwise tolerated by ingestion without aspiration. In general the secondary alcohols are less toxic than the corresponding primary isomers. As a general observation, alcohols are more powerful central nervous system depressants than their aliphatic analogues. In sequence of decreasing depressant potential, tertiary alcohols with multiple substituent OH groups are more potent than secondary alcohols, which, in turn, are more potent than primary alcohols. The potential for overall systemic toxicity increases with molecular weight (up to C7), principally because the water solubility is diminished and lipophilicity is increased.

Within the homologous series of aliphatic alcohols, narcotic potency may increase even faster than lethality

Only scanty toxicity information is available about higher homologues of the aliphatic alcohol series (greater than C7) but animal data establish that lethality does not continue to increase with increasing chain length. Aliphatic alcohols with 8 carbons are less toxic than those immediately preceding them in the series. 10 -Carbon n-decyl alcohol has low toxicity as do the solid fatty alcohols (e.g. lauryl, myristyl, cetyl and stearyl). However the rat aspiration test suggests that decyl and melted dodecyl (lauryl) alcohols are dangerous if they enter the trachea. In the rat even a small quantity (0.2 ml) of these behaves like a hydrocarbon solvent in causing death from pulmonary oedema.

Primary alcohols are metabolised to corresponding aldehydes and acids; a significant metabolic acidosis may occur. Secondary alcohols are converted to ketones, which are also central nervous system depressants and which, in he case of the higher homologues persist in the blood for many hours. Tertiary alcohols are metabolised slowly and incompletely so their toxic effects are generally persistent.

Following ingestion, a single exposure to isopropyl alcohol produced lethargy and non-specific effects such as weight loss and irritation. Ingestion of near-lethal doses of isopropanol produces histopathological changes of the stomach, lungs and kidneys, incoordination, lethargy, gastrointestinal tract irritation, and inactivity or anaesthesia.

Swallowing 10 ml. of isopropanol may cause serious injury; 100 ml. may be fatal if not promptly treated. The adult single lethal doses is approximately 250 ml. The toxicity of isopropanol is twice that of ethanol and the symptoms of intoxication appear to be similar except for the absence of an initial euphoric effect; gastritis and vomiting are more prominent. Ingestion may cause nausea, vomiting, and diarrhoea.

There is evidence that a slight tolerance to isopropanol may be acquired.

Skin Contact

The material can produce severe chemical burns following direct contact with the skin.

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.

One of the mechanisms of skin irritation caused by surfactants is considered to be denaturation of the proteins of skin. It has also been established that there is a connection between the potential of surfactants to denature protein in vitro and their effect on the skin. Nonionic surfactants do not carry any net charge and, therefore, they can only form hydrophobic bonds with proteins. For this reason, proteins are not deactivated by nonionic surfactants, and proteins with poor solubility are not solubilized by nonionic surfactants

Most liquid alcohols appear to act as primary skin irritants in humans. Significant percutaneous absorption occurs in rabbits but not apparently in man.

Open cuts, abraded or irritated skin should not be exposed to this material



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 4 / 18	Revision Date 13.01.2021
--------------	-------------	--------------------------

Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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.

511ipa

Eye

The material can produce severe chemical burns to the eye following direct contact. Vapors or mists may be extremely irritating.

When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.

Some nonionic surfactants may produce a localised anaesthetic effect on the cornea; this may effectively eliminate the warning discomfort produced by other substances and lead to corneal injury. Irritant effects range from minimal to severe dependent on the nature of the surfactant, its concentration and the duration of contact. Pain and corneal damage represent the most severe manifestation of irritation.

Isopropanol vapor may cause mild eye irritation at 400 ppm. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision.

Chronic

Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue.

Gastrointestinal disturbances may also occur. Chronic exposures may result in dermatitis and/or conjunctivitis.

Exposure to the material may cause concerns for human fertility, generally on the basis that results in animal studies provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other toxic effects.

Prolonged or repeated skin contact may cause degreasing with drying, cracking and dermatitis following.

Long term or repeated ingestion exposure of isopropanol may produce incoordination, lethargy and reduced weight gain.

Repeated inhalation exposure to isopropanol may produce narcosis, incoordination and liver degeneration. Animal data show developmental effects only at exposure levels that produce toxic effects in the adult animals. Isopropanol does not cause genetic damage in bacterial or mammalian cell cultures or in animals.

There are inconclusive reports of human sensitization from skin contact with isopropanol. Chronic alcoholics are more tolerant of systemic isopropanol than are persons who do not consume alcohol; alcoholics have survived as much as 500 ml. of 70% isopropanol.

Continued voluntary drinking of a 2.5% aqueous solution through two successive generations of rats produced no reproductive effects.

NOTE: Commercial isopropanol does not contain 'isopropyl oil'. An excess incidence of sinus and laryngeal cancers in isopropanol production workers has been shown to be caused by the byproduct 'isopropyl oil'. Changes in the production processes now ensure that no byproduct is formed. Production changes include use of dilute sulfuric acid at higher temperatures.

Environmental Hazards

Harmful to aquatic organisms.



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 5 / 18	Revision Date 13.01.2021

SECTION 3: Composition/information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name		
67-63-0	5-6	isopropanol		
9043-30-5	10-12	isotridecyl alcohol, ethoxylated		
7732-18-5	40-41	water		
2270950-86-0	42-43	block silicone oil		

SECTION 4: First aid measures

Description of first aid measures

Eye Contact

If this product comes in contact with 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.

Skin Contact

If skin or hair contact occurs:

Immediately flush body and clothes with large amounts of water, using safety shower if available.

Quickly remove all contaminated clothing, including footwear.

Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.

Transport to hospital, or doctor.

Inhalation

If fumes or combustion products are inhaled remove from contaminated area.

Lay patient down. Keep warm and rested.

Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.

Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

Transport to hospital, or doctor, without delay.

Ingestion

For advice, contact a Poisons Information Centre or a doctor at once.

Urgent hospital treatment is likely to be needed.



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R Page 6 / 18 Revision Date 13.01.2021		Revision Date 13.01.2021	Page 6 / 18	Version 6.1R
---	--	--------------------------	-------------	--------------

If swallowed do NOT induce vomiting.

If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

Observe the patient carefully.

Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.

Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay.

SECTION 5: Firefighting measures

Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.

In such an event consider:

foam.

dry chemical powder.

carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility

None known.

Advice for firefighters

Fire Fighting

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves in the event of a fire.

Prevent, by any means available, spillage from entering drains or water courses.

Use firefighting procedures suitable for surrounding area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

If safe to do so, remove containers from path of fire.

Equipment should be thoroughly decontaminated after use.

Fire/Explosion Hazard

The emulsion is not combustible under normal conditions. However, it will break down under fire conditions and the hydrocarbon component will burn.

Decomposes on heating and produces toxic fumes of:

carbon dioxide (CO2)

other pyrolysis products typical of burning organic material.

May emit poisonous fumes.



SAFETY DATA SHEET SOFTENSIL 5930

R, W, SS

Version 6.1R Page 7 / 18	Revision Date 13.01.2021
--------------------------	--------------------------

May emit corrosive fumes.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Measures for Preventing Secondary Contamination

Refer to section above

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills

Clean up all spills immediately.

Avoid breathing vapors 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.

Place in a suitable, labelled container for waste disposal.

Major Spills

Chemical Class: alcohols and glycols

cross-linked polymer - particulate

For release onto land: recommended sorbents listed in order of priority.

LAND SPILL - SMALL

cross-linked polymer - pillow	1	throw	pitchfork	R, DGC, RT
sorbent clay - particulate	2	shovel	shovel	R,I, P
wood fiber - pillow	3	throw	pitchfork	R, P, DGC, RT
treated wood fiber - pillow	3	throw	pitchfork	DGC, RT
foamed glass - pillow	4	throw	pichfork	R, P, DGC, RT
LAND SPILL - MEDIUM				
cross-linked polymer - particulate	1	blower	skiploader	R,W, SS
polypropylene - particulate	2	blower	skiploader	W, SS, DGC
sorbent clay - particulate	2	blower	skiploader	R, I, W, P, DGC
polypropylene - mat	3	throw	skiploader	DGC, RT
expanded mineral - particulate	3	blower	skiploader	R, I, W, P, DGC
polyurethane - mat	4	throw	skiploader	DGC, RT

1 shovel shovel

Legend

DGC: Not effective where ground cover is dense

R; Not reusable I: Not incinerable

P: Effectiveness reduced when rainy RT: Not effective where terrain is rugged



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R Page 8 / 18 Revision Date 13.01.2021

SS: Not for use within environmentally sensitive sites

W: Effectiveness reduced when windy

Reference: Sorbents for Liquid Hazardous Substance Cleanup and Control;

R.W Melvold et al: Pollution Technology Review No. 150: Noyes Data Corporation 1988 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.

Stop leak if safe to do so.

Contain spill with sand, earth or vermiculite.

Collect recoverable product into labelled containers for recycling.

Neutralize/decontaminate residue (see Section 13 for specific agent).

Collect solid residues and seal in labelled drums for disposal.

Wash area and prevent runoff into drains.

After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.

If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 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.

DO NOT allow material to contact humans, exposed food or food utensils.

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. Launder contaminated clothing before re-use.

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 are maintained.

DO NOT allow clothing wet with material to stay in contact with skin

Conditions for safe storage, including any incompatibilities



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 9 / 18	Revision Date 13.01.2021
COLOTO OLET	1.490 2 / 10	I REVISION DUCE IDICITIESEI

Suitable container

Polyethylene or polypropylene container.

Packing as recommended by manufacturer.

Check all containers are clearly labelled and free from leaks.

Storage incompatibility

Isopropanol (syn: isopropyl alcohol, IPA):

- forms ketones and unstable peroxides on contact with air or oxygen; the presence of ketones especially methyl ethyl ketone
- (MEK, 2-butanone) will accelerate the rate of peroxidation
- reacts violently with strong oxidisers, powdered aluminium (exothermic), crotonaldehyde, diethyl aluminium bromide (ignition), dioxygenyl tetrafluoroborate (ignition/ ambient temperature), chromium trioxide (ignition), potassium-tert-butoxide (ignition), nitroform (possible explosion), oleum (pressure increased in closed container), cobalt chloride, aluminium triisopropoxide, hydrogen plus palladium dust (ignition), oxygen gas, phosgene, phosgene plus iron salts (possible explosion), sodium dichromate plus sulfuric acid (exothermic/ incandescence), triisobutyl aluminium
- reacts with phosphorus trichloride forming hydrogen chloride gas
- reacts, possibly violently, with alkaline earth and alkali metals, strong acids, strong caustics, acid anhydrides, halogens, aliphatic amines, aluminium isopropoxide, isocyanates, acetaldehyde, barium perchlorate (forms highly explosive perchloric ester compound), benzoyl peroxide, chromic acid, dialkylzincs, dichlorine oxide, ethylene oxide (possible explosion), hexamethylene diisocyanate (possible explosion), hydrogen peroxide (forms explosive compound), hypochlorous acid, isopropyl chlorocarbonate, lithium aluminium hydride, lithium tetrahydroaluminate, nitric acid, nitrogen dioxide, nitrogen tetraoxide (possible explosion), pentafluoroguanidine, perchloric acid (especially hot), permonosulfuric acid, phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium, trinitromethane
- attacks some plastics, rubber and coatings
- reacts with metallic aluminium at high temperature
- may generate electrostatic charges

Alcohols

- are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents.
- reacts, possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen
- react with strong acids, strong caustics, aliphatic amines, isocyanates, acetaldehyde, benzoyl
 peroxide, chromic acid, chromium oxide, dialkylzincs, dichlorine oxide, ethylene oxide, hypochlorous
 acid, isopropyl chlorocarbonate, lithium tetrahydroaluminate, nitrogen dioxide, pentafluoroguanidine,
 phosphorus halides, phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium
- should not be heated above 49 deg. C. when in contact with aluminium equipment

SECTION 8: Exposure Controls/Personal Protection

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 10 / 18	Revision Date 13.01.2021
10.0.0 0.1	1 : 496 10 / 10	Nevicion Bate IDIOIIECEI

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
China Occupational Exposure	isopropanol	Isopropyl alcohol (IPA)	350 mg/m3	700 mg/m3	Not Available	Not Available
Limits for Hazardous Agents in the Workplace						

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
isopropanol	Isopropyl alcohol	400 ppm	2000* ppm	12000** ppm

Ingredient	Original IDLH	Revised IDLH
isopropanol	2,000 ppm	Not Available
isotridecyl alcohol,	Not Available	Not Available
ethoxylated		
water	Not Available	Not Available

OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
isotridecyl alcohol,	E	≤ 0.1 ppm
ethoxylated		

Notes:

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. Provide adequate ventilation in warehouses and enclosed storage areas. Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.

SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 11 / 18	Revision Date 13.01.2021
VCISION OLIK	lage II / IO	Nevision Date 15.01.2021

Type of Contaminant:	Air Speed:
solvent, vapors, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s
	(50-100 f/min)
aerosols, fumes from pouring operations, intermittent container filling, low speed	0.5-1 m/s
conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low	(100-200 f/min.)
velocity into zone of active generation)	
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher	1-2.5 m/s
dusts, gas discharge (active generation into zone of rapid air motion)	(200-500 f/min)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at	2.5-10 m/s
high initial velocity into zone of very high rapid air motion).	(500-2000 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favorable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood - local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe.

Velocity generally decreases with the square of distance from the extraction point (in simple cases).

Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source.

The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Personal protection



Eye and face protection

Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure. Chemical goggles whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted.

Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection.

Alternatively a gas mask may replace splash goggles and face shields.

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



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 12 / 18	Revision Date 13.01.2021
VCISION OLIN	11490 12 / 10	Nevision Date Islanizati

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], [AS/NZS 1336 or national equivalent]

Skin protection

See Hand protection below

Hands/feet protection

Elbow length PVC gloves

When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a 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:

- · 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).

- 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.
- 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.
- 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:

- Excellent when breakthrough time > 480 min
- Good when breakthrough time > 20 min
- 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 emphasized that glove thickness is not necessarily a good predictor of glove resistance to a



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 13 / 18	Revision Date 13.01.2021
--------------	--------------	--------------------------

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 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.

Body protection

See Other protection below

Other protection

Overalls.

P.V.C. apron.

Barrier cream.

Skin cleansing cream.

Eye wash unit.

SECTION 9: Physical and Chemical Properties

Appearance Transparent light yellow

Physical state Liquid

Relative density (Water = 1)

Odor

Not Available
Partition coefficient n-octanol / water
Odor threshold

Auto-ignition temperature (°C)

Pot Available
Not Available
Not Available
Not Available
Auto-ignition temperature

Not Available
Auto-ignition temperature

Not Available
Not Available
Auto-ignition temperature

Decomposition temperature

Melting point / freezing point (°C)

Viscosity (cSt)

Not Available

Not Available

Initial boiling point and 98-101

boiling range (°C)

Molecular weight (g/mol) Not Available



SAFETY DATA SHEET **SOFTENSIL 5930**

Version 6.1R	Page 14 / 18	Revision Date 13.01.2021
VELSION O.TK	Faye 14 / 10	Nevision Date 13.01.2021

Flash point (° C) >100 Taste Not Available Evaporation rate Not Available Not Available Explosive properties Flammability Not Applicable Oxidizing properties Not Available Upper Explosive Limit (%) Not Available Surface Tension (dyn/cm or mN/m) Not Available Lower Explosive Limit (%) Not Available Volatile Component (%vol) Not Available 2.1 Vapor pressure (kPa)

Gas group Not Available Solubility in water Miscible pH as a solution (1%) Not Available Vapor density (Air = 1) Not Available VOC g/L Not Available

SECTION 10: Stability And Reactivity

Reactivity

See section 7

Chemical stability

Unstable in the presence of incompatible materials.

Product is considered stable.

Hazardous polymerization 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

SECTION 11:Toxicological Information

SOFTENSIL 5930

TOXICITY IRRITATION Not Available Not Available

isopropanol

TOXICITY IRRITATION



SAFETY DATA SHEET **SOFTENSIL 5930**

Version 6.1R Page 15 / 18 Revision Date 13.01.2021

dermal (rat) LD50: =12800 mg/kg[2] Eye (rabbit): 10 mg - moderate Inhalation (rat) LC50: 72.6 mg/l/4h[2] Eye (rabbit): 100 mg - SEVERE Oral (rat) LD50: =4396 mg/kg[2] Eye (rabbit): 100mg/24hr-moderate

Skin (rabbit): 500 mg - mild

isotridecyl alcohol, ethoxylated

TOXICITY IRRITATION Not Available Not Available

water

TOXICITY IRRITATION Oral (rat) LD50: >90000 mg/kg[2] Not Available

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained

from manufacturer's SDS.

Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Acute Toxicity X Carcinogenicity X Skin Irritation/Corrosion √ Reproductivity ×

Serious Eye Damage/Irritation √ STOT - Single Exposure \times Respiratory or Skin sensitization × STOT – Repeated Exposure ×

Mutagenicity × Aspiration Hazard ×

imes – Data either not available or does not fill the criteria for classification

√ - Data available to make classification

SECTION 12: Ecological Effects

SOFTENSIL 5930

ENDPOINT	TEST DURA	TION (HR)	SPECIES	VALUE	SOURCE
Not Available	Not Available		Not Available	Not Available	Not Available
isopropanol					
ENDPOINT	TEST DURA	TION (HR)	SPECIES	VALUE	SOURCE
LC50	96		Fish	9-640mg/L	2
EC50	48		Crustacea	12500mg/L	5
EC50	96	Algae or othe	r aquatic plants	993.232mg/L	3
EC0	24		Crustacea	5-102mg/L	2
NOEC	5760		Fish	0.02mg/L	4
isotridecyl alcoh	ol, ethoxylate	d			
ENDPOINT	TEST DURA	TION (HR)	SPECIES	VALUE	SOURCE
Not Available	Not Available		Not Available	Not Available	Not Available
water					
ENDPOINT	TEST DURA	TION (HR)	SPECIES	VALUE	SOURCE
LC50	96		Fish	897.520mg/L	3
EC50	96	Algae or othe	r aquatic plants	8768.874mg/L	3



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 16 / 18	Revision Date 13.01.2021
VCISION OLIK	lage io / io	Revision bate 15.01.2021

Legend: Extracted from

- 1. IUCLID Toxicity Data
- 2. Europe ECHA Registered Substances Ecotoxicological Information Aquatic Toxicity
- 3. EPIWIN Suite V3.12 (QSAR) Aquatic Toxicity Data (Estimated)
- 4. US EPA, Ecotox database Aquatic Toxicity Data
- 5. ECETOC Aquatic Hazard Assessment Data
- 6. NITE (Japan) Bioconcentration Data
- 7. METI (Japan) Bioconcentration Data
- 8. Vendor Data

Persistence and degradability

Ingredient Persistence: Water/Soil Persistence: Air

isopropanol LOW (Half-life = 14 days) LOW (Half-life = 3 days)

water LOW LOW

Bioaccumulative potential

Ingredient Bioaccumulation

isopropanol LOW (LogKOW = 0.05) water LOW (LogKOW = -1.38)

Mobility in soil

Ingredient Mobility

isopropanol HIGH (KOC = 1.06) water LOW (KOC = 14.3)

Other adverse effects

No data available

SECTION 13:Disposal considerations

Waste treatment methods

Waste chemicals:

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



SAFETY DATA SHEET SOFTENSIL 5930

	Version 6.1R	Page 17 / 18	Revision Date 13.01.2021
--	--------------	--------------	--------------------------

appropriate.

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.

Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).

Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Contaminated packing materials:

Refer to section above

Precautions for Transport:

Refer to section above

SECTION 14:Transport Information

Labels Required

Marine Pollutant: NO

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS
GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Precautions for Transport

Suitable Containers

See section 7

SECTION 15:Regulatory Information

Safety, health and environmental regulations / legislation specific for the substance or mixture China Inventory of Existing Chemical Substances

SECTION 16:Other Information

Further information

It must be recognized that the physical and chemical properties of any product may not be fully



SAFETY DATA SHEET SOFTENSIL 5930

Version 6.1R	Page 18 / 18	Revision Date 13.01.2021
--------------	--------------	--------------------------

understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

