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Ningbo Customs District Technology Center

TEST REPORT

REPORT NUMBER	232500006189
SAMPLE NAME	Par Par
CUSTOMER	ZHEJIANG JEROME HOUSEHOLD ARTICLES CO. LTD

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SIGNATURE PAGE

Report No.: 232500006189. The acute dermal toxicity test report for the sample named "Par Par" on SD rats has been approved by the authorized signatory and signed by the head of the Toxicological Safety Evaluation Laboratory at the Ningbo Customs Technology Center.

Note 1: This report is an English translation of the 232500006175 report issued on 2025.08.18. If the comparison is inconsistent, the Chinese version shall prevail.

SIGNATURE AND DATE

Authorized Signatory Signature: **Date:** 2025.08.18

Signature of Lab Manager: **Date:** 2025.08.18

EXPERIMENTAL PLAN

Study Initiation Date: 2025.06.13

Study Start Date: 2025.06.20

Dosing Date: 2025.06.26

Observation Period: 2025.06.26 ~ 2025.07.10

Necropsy Date: 2025.07.10

Study Completion Date: 2025.07.11

Report Finalization Date: 2025.07.29

PERSONNEL INVOLVED

Study Personnel: Ye Ziqian, Ruan Yi

SUMMARY

This report aims to evaluate the acute dermal toxicity of the test substance "Par Par" in SD rats following 24-hour continuous exposure via intact skin. The study observes the toxic effects induced by "Par Par" and classifies its toxicity category in accordance with GB/T 15670.5-2017 "Toxicological Test Methods for Pesticide Registration - Part 5: Acute Dermal Toxicity Test".

The acute dermal toxicity test was conducted using 5 male and 5 female SD rats at a limit dose of 5000 mg/kg body weight. Approximately 24 hours before dosing, the hair on both sides of the dorsal midline was shaved with a razor, preparing a skin area of 5 cm × 7 cm. The required amount of test substance for each animal was weighed, applied onto a porous gauze, and evenly spread over the prepared skin area. The gauze was then secured with non-irritating adhesive tape to prevent the animals from licking the substance. After 24 hours of occlusive exposure, the securing materials and covering were removed, and any residual test substance on the skin was washed off with water. Signs of toxicity and mortality during the exposure and observation periods were observed and recorded.

Clinical Signs

No signs of toxicity or mortality were observed in any animals during the 14-day post-exposure period.

Body Weight

Body weights were recorded on Day 0 (prior to dosing), Day 7, and Day 14. No abnormal changes in body weight were observed during the study.

Gross Necropsy

At the end of the study, all surviving animals were euthanized by carbon dioxide asphyxiation. Gross necropsy revealed no abnormal findings.

Conclusion

Based on the aforementioned results, no signs of toxicity or mortality were observed in SD rats following a single dermal administration of the test substance "Par Par" at a dose of 5000 mg/kg body weight. It can be concluded that, under the conditions of this test, the acute dermal LD_{50} of "Par Par" in SD rats is greater than 5000 mg/kg body weight. Therefore, in accordance with Section 3.3.2.8, Table 2 (Toxicity Classification of Pesticide Products) of the Ministry of Agriculture of the People's Republic of China Decree No. 10, 2007: Provisions on pesticide registration data, the acute dermal toxicity of the test substance "Par Par" was classified as Category IV (Slightly Toxic).

SAMPLE PHOTO

1. OBJECTIVE

This report aims to evaluate the acute dermal toxicity effects of the test substance "Par Par" on SD rats following 24-hour continuous exposure via intact skin. The study objectives include observing the acute dermal toxicity effects of "Par Par" on SD rats, determining whether the substance can be absorbed through the skin and the acute toxicity effects resulting from short-term dermal exposure, monitoring toxic reactions and mortality in experimental animals, and calculating the LD_{50}.

2. TEST STANDARD

GB/T 15670.5-2017 Toxicological Test Methods for Pesticide Registration - Part 5: Acute Dermal Toxicity Test

3. MATERIALS AND METHODS

3.1. TEST SUBSTANCE INFORMATION

Test Parameters	Detailed Information
Sample name	Par Par
Sample Status	Pale yellow liquid
Sample Status	45 ml/bottle
Sample Quantity	5 Bottle
Sample Brand	Par Par
Sample Packaging	Commercial Package
Customer	ZHEJIANG JEROME HOUSEHOLD ARTICLES CO. LTD
Address of Customer	NO,1WANGJIANG ROAD,DONGNAN INDUSTRIAL AREA,WUYI COUNTRY ZHEJIANG PROVINCE.CHINA

3.2. VEHICLE INFORMATION

No vehicle was used in this study.

3.3. TEST SYSTEM

3.3.1. Details of the Test System

Species	Rat
Strain	SD Rat
Sex	Equal number of males and females. Females were nulliparous and non-pregnant.
Number of animals	5 Males, 5 Females
Age at the start of dosing	9 weeks
Animal Source	Zhejiang Vital River Laboratory Animal Technology Co. ,LTD
Microbial status	SPF
Animal Quality Certificate No.	♂:20250619Aazz06199990587 ♀:20250619Aazz06199990588
Experimental Animal Production License Number	SCXK(Zhe)2024-0001
Experimental Animal Use License Number	SYXK(Zhe)2021-0032

3.4. EQUIPMENT

3.4.1. APPARATUS

Equipment	Instrument ID	Model No.	Manufactured by
Weighing Balance	201200001655	CPA8201	Germany

3.5. TEST METHOD

3.5.1. Housing conditions

Facilities: Barrier system;

Temperature: 21.8℃ ~ 23.7℃

Relative humidity: 46.8% ~ 52.1%

3.5.2. Feed and Water

Name: Irradiated Lab Rat and Mouse Maintenance Formula Diet;

Manufacturers: Jiangsu Xietong Pharmaceutical Bio-engineering Co., Ltd.

Production License Number: Susi license (2024) 01008;

Production Date: 2025.04.02;

Quality guarantee period: 6 months;

Batch number: 2504010202;

Qualification certificate number: 20-SM250620092.

Type I RO water: The free chlorine in water was controlled at 0.3 mg/L -2 mg/L for sterilization. The animals had free access to drinking spout containing water.

Analysis and Detection: The content of heavy metals, microorganisms and free chlorine in drinking water met the requirements of the *GB 5749-2022 Standards for drinking water quality.*。

3.6. EXPERIMENTAL DESIGN AND PROCEDURE

3.6.1. Animal Receipt and Acclimation

Animals were acclimated for 6 days in a barrier-system animal room prior to the study. During the quarantine period, individual identification was achieved through cage number combined with limb staining. Animals were observed once daily for abnormalities. This acclimation period exceeded the minimum 3-day requirement stipulated in GB/T 15670.5-2017 “Toxicological Test Methods for Pesticide Registration - Part 5: Acute Dermal Toxicity Test”, ensuring that animal body weights met standard requirements.

3.6.2. Animal Identification

During the study, animals were identified using picric acid, fuchsin red, and methyl violet applied to specific body regions. Picric acid marked units digits (1-9), methyl violet marked tens digits (10-90), and fuchsin red marked hundreds digits. Specific marking sites: Units digits (picric acid): left forelimb (1), left flank (2), left hindlimb (3), head (4), dorsal trunk (5), tail base (6), right forelimb (7), right flank (8), right hindlimb (9).Tens digits (methyl violet): left forelimb (10), left flank (20), etc. Combined digits (e.g., 11 = methyl violet [10] + picric acid [1]).

3.6.3. Cage Labeling

During both quarantine and experimental periods, cages were labeled with white self-adhesive cage cards containing the following information: study number, test substance name, animal strain, dose concentration, group designation, sex, cage/animal ID, signature, and date.

3.6.4. Route of Administration

The test substance was administered dermally by uniform application to the shaved dorsal skin (both sides of the midline), covering at least 10% of the total body surface area.

4. EXPERIMENTAL PROCEDURE/ DESIGN

4.1. Animal Preparation

Approximately 24 hours prior to test substance administration, the fur on both sides of the dorsal midline was shaved using clippers to prepare a skin area of 5 cm × 7 cm. The pre-dosing body weight range was 200.4 g to 214.6 g, and the calculated 10% total body surface area (BSA) ranged from 31.3 cm^2 to 32.7 cm^2.

Body weight of the animals was considered at the time of deciding the area and accordingly an appropriate dimension of the test area was cleared of fur.

Based on the Meeh's formula, the body surface area (BSA) was calculated: Animal

$$BSA\ (m^2) = k \times (\text{body weight in kg} \times 1000)\ \text{^(2/3)} / 10000$$

K = Meeh's constant; K= 9.13 for laboratory rats

4.2. DOSAGE: 5000 mg/kg body weight

4.3. DOSE SELECTION

In accordance with GB/T 15670.5-2017 "Toxicological Test Methods for Pesticide Registration - Part 5: Acute Dermal Toxicity Test", a limit test was conducted at a dose level of 5000 mg/kg body weight using 5 male and 5 female animal.

4.4. TEST SUBSTANCE ADMINISTRATION

The calculated amount of test substance for each animal was applied to a porous gauze patch, which was then uniformly spread over the prepared skin area. The patch was secured with non-irritating adhesive tape to prevent ingestion and maintain occlusive contact for 24 hours. After exposure, the patch and securing materials were removed, and any residual test substance was washed from the skin with water.

4.5. OBSERVATION PERIOD

All animals were observed continuously for 14 days post-administration.

5. OBSERVATIONS AND RECORDS

5.1. MORTALITY AND GENERAL CLINICAL SIGNS

Signs of toxicity and mortality were observed and recorded during exposure and throughout the 14-day observation period.

5.2. BODY WEIGHT RECORDS

Individual body weights were recorded at the following time points: at death (if applicable), Day 0 (prior to dosing), Day 7, and Day 14.

5.3. GROSS NECROPSY EXAMINATION

All animals found dead were necropsied on the day of death. Survivors were euthanized by carbon dioxide asphyxiation and subjected to gross necropsy at the end of the 14-day observation period.

6. RESULTS AND DISCUSSION

6.1. MORTALITY AND CLINICAL OBSERNVTIONS

No signs of toxicity or mortality were observed in any animals during the 14-day post-exposure period. Detailed data are presented in Tables 1 and 2.

6.2. BODY WETGHT

No abnormal changes in body weight were observed during the study. Results are shown in Appendix Table 3.

6.3. GROSS NECROPSY FINDINGS

Gross necropsy findings for euthanized animals are detailed in Table 4.

7. CONCLUSION

Based on the experimental results, no signs of toxicity or mortality were observed following a single dermal administration of the test substance "Par Par" at 5000 mg/kg body weight. It is concluded that the acute dermal LD_{50} of "Par Par" in SD rats exceeds 5000 mg/kg body weight under the test conditions. Therefore, according to Table 2 (Toxicity Classification of Pesticide Products) in Section 3.3.2.8 of the Requirements for Pesticide Registration Data (Ministry of Agriculture Order No. 10, 2007), the acute dermal toxicity of "Par Par" was classified as Category IV (Slightly Toxic)。

8. REFERENCES

1) GB/T 15670.5-2017 Toxicological Test Methods for Pesticide Registration - Part 5: Acute Dermal Toxicity Test

2) Ministry of Agriculture of the People's Republic of China Decree No. 10, 2007: Provisions on pesticide registration data.

9. DATA TABLES

Table 1: Animal Mortality Observation Record

Dose (mg/kg body weight)	Number of animals	Sex	Mortality
5000	5	Male	0
5000	5	Female	0

Table 2: Clinical Observations in Animals

Animal ID	Sex	Observation Period														
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
01	♂	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
02	♂	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
03	♂	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
04	♂	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
05	♂	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
06	♀	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
07	♀	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
08	♀	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
09	♀	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
10	♀	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Note: "♂" denotes male animals; "♀" denotes female animals. "N" means No abnormal clinical changes were found.

Table 3: Animal Body Weight (g)

Dose (mg/kg B. Wt.)	Animal of Numbers	Sex	D-1	D0	D7	D14	14 days weight gain
5000	5	Male	207.3±5.97	213.4±5.38	257.8±4.80	304.4±13.33	97.1±15.07
5000	5	Female	204.9±6.18	210.4±6.38	251.2±4.64	301.1±17.03	96.2±11.53

Table 4: Gross Anatomical Findings in Animals

Dose (mg/kg body weight)	Number of animals	Sex	Mode of Death	Gross Necropsy Examination

5000	5	♂	Euthanasia	N
5000	5	♀	Euthanasia	N

Note: "N" means No abnormal gross anatomy found.

10. ANNEXURES

ANNEXURE 1: THE TOXICITY CLASSIFICATION OF PROVISIONS ON PESTICIDE REGISTRATION DATA

Toxicity Classification	Classification	Acute Oral LD_{50} cut-off values(mg/kg)	Acute Dermal LD_{50} cut-off values(mg/kg)	Acute Inhalation LC_{50} cut-off values (mg/m^3)
Ia	Extreme toxicity	≤5	≤20	≤20
Ib	High toxicity	>5 ~ 50	>20 ~ 200	>20 ~ 200
II	Moderate toxicity	>50 ~ 500	>200 ~ 2000	>200 ~ 2000
III	Slight Toxic	>500 ~ 5000	>2000 ~ 5000	>2000 ~ 5000
IV	Negligible Toxic	>5000	>5000	>5000

ANNEXURE 2: CNAS CERTIFICATE

CNAS

China National Accreditation Service for Conformity Assessment

GLP Compliance Statement

(Registration No. CNAS GLP0004)

Ningbo Customs District Technology Center

Meigang Building C, Meishan Free Trade Port Zone, Beilun District, Ningbo, Zhejiang, China

is inspected to Principles of Good Laboratory Practice（GLP） published by Organisation for Economic Co-operation and Development（OECD） for the study expertise listed in the appendix to this statement, which bears the same registration number as above. The appendix forms an integral part of this statement.

Effective Date：2025-03-26

Expiry Date：2028-04-17

Date of Initial Accreditation：2011-07-20

Signed on behalf of China National Accreditation Service for Conformity Assessment 张朝华

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